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CARROLL COLLEGE BULLETIN



The Annual Catalogue

1922-1923

Waukesha, Wisconsin

April, 1923

Carroll College Bulletin

Vol. XX

No. 2

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The Annual Catalogue

**For the Academic
Year of 1922-1923
With Announcements for the Year
of 1923-1924**

Waukesha, Wisconsin

April, 1923

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College Calendar, 1923-1924

1923

<i>January 3</i> , Wednesday, 8 A.M.	Christmas Recess ends.
<i>January 29 — February 2</i> ,	Examinations for the First Semester and Registration for the Second Semester.
<i>February 2</i> , Friday, 4 P.M.	First Semester ends.
<i>February 5</i> , Monday, 8 A.M.	Second Semester begins.
<i>March 23</i> , Friday, 4 P.M.	Spring Recess begins.
<i>April 3</i> , Tuesday, 8 A.M.	Spring Recess ends.
<i>June 8-14</i> ,	Examinations for the Second Semester.
<i>June 10</i> , Sunday, 3 P.M.	Final Vesper Service.
<i>June 10</i> , Sunday, 8 P.M.	Baccalaureate Service.
<i>June 12</i> , Tuesday, 8 P.M.	Recital of the Department of Music.
<i>June 13</i> , Wednesday, 8 P.M.	Presentation of the College Play.
<i>June 14</i> , Thursday, 9:30 A.M.	Meeting of the Board of Trustees.
<i>June 14</i> , Thursday, 11 A.M.	Final Chapel Service.
<i>June 14</i> , Thursday, 3 P.M.	Class Day Exercises.
<i>June 14</i> , Thursday, 6:30 P.M.	Alumni Banquet.
<i>June 15</i> , Friday, 10 A.M.	Commencement.

Summer Vacation.

<i>September 17, 18</i> , Monday, Tuesday,	Registration for the First Semester.
<i>September 19</i> , Wednesday,	First Semester begins.
<i>November 29 — December 1</i> ,	Thanksgiving Recess.
<i>December 19</i> , Wednesday, 4 P.M.	Christmas Recess begins.

1924

<i>January 2</i> , Wednesday, 8 A.M.	Christmas Recess ends.
<i>January 28 — February 1</i> ,	Examinations for the First Semester and Registration for the Second Semester.
<i>February 1</i> , Friday, 4 P.M.	First Semester ends.
<i>February 4</i> , Monday, 8 A.M.	Second Semester begins.
<i>March 28</i> , Friday, 4 P.M.	Spring Recess begins.
<i>April 8</i> , Tuesday, 8 A.M.	Spring Recess ends.
<i>June 6-12</i> ,	Examinations for the Second Semester.
<i>June 8</i> , Sunday, 3 P.M.	Final Vesper Service.
<i>June 8</i> , Sunday, 8 P.M.	Baccalaureate Service.
<i>June 10</i> , Tuesday, 8 P.M.	Recital of the Department of Music.
<i>June 11</i> , Wednesday, 8 P.M.	Presentation of the College Play.
<i>June 12</i> , Thursday, 9:30 A.M.	Meeting of the Board of Trustees.
<i>June 12</i> , Thursday, 11 A.M.	Final Chapel Service.
<i>June 12</i> , Thursday, 3 P.M.	Class Day Exercises.
<i>June 12</i> , Thursday, 6:30 P.M.	Alumni Banquet.
<i>June 13</i> , Friday, 10 A.M.	Commencement.

Summer Vacation.

<i>September 15, 16</i> , Monday, Tuesday,	Registration for the First Semester.
<i>September 17</i> , Wednesday,	First Semester begins.
<i>December 17</i> , Wednesday, 4 P.M.	Christmas Recess begins.

The Board of Trustees

TERM EXPIRES 1923

ROY L. BENJAMIN	Waukesha
RALPH P. PERRY	Reedsburg
CLINTON COPPS	Stevens Point
FREDERICK C. COMSTOCK	Milwaukee
WILLIAM H. EDWARDS	Milwaukee
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TERM EXPIRES 1924

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JACOB MORTENSON	Oak Park, Ill.
ANDREW J. FRAME, LL.D.	Waukesha
ARTHUR W. WILCOX	Horicon
ARTHUR B. HALL	Chicago, Ill.
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TERM EXPIRES 1925

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REV. WILLIAM W. PERRY, LL.D.	Milwaukee
HENRY M. YOUMANS	Waukesha
F. P. STONE	Wausau
WILLIAM MAINLAND	Oshkosh
HON. WILLIAM D. CONNOR	Marshfield

TERM EXPIRES 1926

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REV. ALFRED S. BADGER, D.D.	Waukesha
S. FRANK SHATTUCK	Neenah
JAMES K. LOWRY	Waukesha
RICHARD P. BREESE	Waukesha
DONALD S. MONTGOMERY	Milwaukee
PRESIDENT WILLIAM A. GANFIELD, D.D., LL.D.	

Officers and Committees of the Board of Trustees

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REV. ALFRED S. BADGER, D.D.	Vice-President
RICHARD P. BREESE	Secretary
WALTER R. FRAME	Treasurer of the College

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ROY L. BENJAMIN	ANDREW J. FRAME, LL.D.
HENRY M. YOUNG	FREDERICK C. COMSTOCK
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JACOB MORTENSON	THOMAS L. RANKIN

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FREDERICK C. COMSTOCK	

AUDITING COMMITTEE

WILLIAM H. EDWARDS	FREDERICK C. COMSTOCK
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BUILDING AND GROUNDS COMMITTEE

HENRY M. YOUNG	JAMES K. LOWRY
DONALD S. MONTGOMERY	

The corporate name of the College is
THE BOARD OF TRUSTEES OF CARROLL COLLEGE.

The Faculty

OFFICERS OF ADMINISTRATION

WILLIAM ARTHUR GANFIELD, M.A., D.D., LL.D.	
President	218 East Avenue
LLOYD SLOTE DANCEY, M.A.	125 Charles Street
Dean of the College	
HARRY LINN STARR, M.A.	348 Wisconsin Avenue
Registrar, and Secretary of the Faculty	
CLARENCE SHEPARD	Carroll College
Director of the School of Music	
ALIDA DEGELER, Ph.D.	Elizabeth Voorhees Dormitory
Dean of Women	
SADIE MAE LEE	322 McCall Street
Secretary to the President	

OFFICERS OF INSTRUCTION

WILLIAM ARTHUR GANFIELD, M.A., D.D., LL.D.	
President	218 East Avenue
SAMUEL B. RAY, M.A., L.H.D.	Milwaukee
Professor Emeritus of Education and Mathematics	
MAY NICKELL RANKIN, B.A., B.O.	303 East Avenue
Ralph Voorhees Professor of Literary Interpretation	
HARRY LINN STARR, M.A.	348 Wisconsin Avenue
Professor of English	
LLOYD SLOTE DANCEY, M.A.	125 Charles Street
Professor of Mathematics and Physics	
JAMES ELCANA ROGERS, Ph.D., Litt.D., D.D.	300 East Avenue
Professor of Philosophy and Instructor in Greek	
CLARENCE SHEPARD	Carroll College
Professor of Piano, Organ and Theory	

ZACHARIAH DAVIES, M.A., B.D. 127 Newhall Avenue
Professor of Biblical Literature and Religious Education

*FRANK ORMSBY Carroll College
Professor of Voice

STANLEY W. ROCKWOOD, M.A. 139 South Grand Avenue
Professor of Romance Languages

JOHN W. TAYLOR, M.A. 348 Wisconsin Avenue
Professor of History and Political Science

SAMUEL SHIPMAN KINGSBURY, Ph.D.
613 Hartwell Avenue
Professor of Latin and German

ROY FRANKLIN RICHARDSON, Ph.D. 422 Central Avenue
Professor of Education and Psychology

JAY JOHN GRIMM, B.S. 821 Barstow Street
Professor of Biology

ALLEN BENNETT FORSBERG, M.A. Carroll College
Professor of Business Administration

MILTON W. THOMPSON, M.A. 537 Dunbar Avenue
Professor of Economics

WARD L. RAY, Ph.D. 544 West College Avenue
Professor of Chemistry

ALIDA DEGELER, Ph.D. Voorhees Dormitory
Professor of French

GEORGE ORTON BANTING, Ph.B. 135 S. Grand Avenue
Associate Professor of Education

†ALEXIUS BAAS Carroll College
Professor of Voice

GROVER CLEVELAND SPRINGER, B.A., B.O.
120 Wright Street
Instructor in English and Public Speaking

JOHN E. FRIES, M.A. 215 West Park Avenue
Instructor in Mechanical Drawing

*Resigned, February 5, 1923.

†Appointed, February 5, 1923.

ERNA SELMA LAU, B.Mus.	121 North East Avenue
Instructor in Piano	
GWYNIFRED JANE BIBBY, B.A.	124 Wright Street
Librarian and Instructor in Library Methods	
FERN KAUFMAN SPRINGER, B.S.	120 Wright Street
Instructor in Home Economics	
MADISON BELL, B.A.	222 Charles Street
Director of Physical Education	

STUDENT ASSISTANTS

ASSISTANT IN PHYSICS

Beulah Greengo.

ASSISTANT IN MATHEMATICS

Dorothy Ganfield.

ASSISTANTS IN CHEMISTRY

Albert Brandt, Elmer Leininger.

ASSISTANTS IN COMMERCE

Stanford Richardson, Frederick Joerns.

ASSISTANT IN ECONOMICS

Gerald S. Thomas.

ASSISTANT IN BIOLOGY

Amelia West

ASSISTANT IN SPANISH

Frances Judin.

ASSISTANT IN ENGLISH

Irene Keuper.

ASSISTANTS IN THE LIBRARY

Beatrice Adams, Carol Vincent.

ASSISTANTS IN MUSIC

Elsa Roth, Frances Estberg.

MRS. MARY D. WAGA

Matron

Voorhees Dormitory

EVELYN THOMAS

Stenographer

1119 Buckley Street

BURTON W. WATT

Superintendent of Grounds and Buildings

Rankin Hall

COMMITTEES OF THE FACULTY

ADMINISTRATION—President Ganfield, Professors Dancey, Starr, Rankin, Kingsbury, Degeler.

REGISTRATION AND CURRICULUM—Professors Starr, Dancey, Richardson, Kingsbury, Ray, Grimm.

LIBRARY—Professors Taylor, Starr, Rockwood, Miss Bibby.

RELIGIOUS LIFE—Professors Davies, Rogers, Springer, Degeler.

PUBLIC EXERCISES—Professors Rogers, Davies, Rankin, Taylor, Springer.

ATHLETICS—Professors Grimm, Dancey, Ray, Bell, Mr. Fries.

STUDENT ACTIVITIES AND SOCIAL AFFAIRS—Professors Davies, Rankin, Grimm, Degeler, Mrs. Springer.

APPOINTMENTS—Professors Richardson, Dancey, Starr, Taylor.

AUDITS—Professor Forsberg.

CARROLL COLLEGE

Carroll College was incorporated as a collegiate institution early in 1846. It was established upon the foundation of an earlier institution, an academy, organized and in operation as early as 1840. The newly organized college represented the determined purpose of the pioneers of what was then the wilderness of southern Wisconsin to reproduce in their western home the institutions of intellectual and religious culture, which they had cherished in the old homes, in New England and New York chiefly. Carroll College, in its inception, then, represents the purpose of establishing and promoting in this newly developing land the ideal and cause of Christian education and culture, and such purpose it has continued in the years that have passed to maintain and stress. During the greater part of this time, the college has been associated with the Presbyterian Church, as the agent of its educational ideals and activities, in a relation that has been mutually helpful without imposing upon the college any denominational tests or restraints. Several Christian denominations are represented in the Board of Trustees and in the Faculty, and students of all denominations find here a friendly and congenial atmosphere.

Carroll a College

Carroll has pride in the name "College" and in its membership in the group of institutions that bear that name. For the college is distinctively an American institution. Its origin, and the determination of the nature of its development, are to be found in the conditions of American life and character, conditions demanding large vision, adaptability, power of initiative, combined with a high sense of personal responsibility.

Advantages of the College

For the realization of these ends, the College possesses distinct advantages. Here the student may find equipment

adequate for his need, and, at the same time, all the opportunities for study, for investigation, for culture, that he can successfully appropriate in his undergraduate course. In the compact group of the college community, not only may instruction and cultural discipline be more effective, but, in the fullness and completeness of associations and experience possible therein, may be found the best preparation for meeting and mastering the trying problems of life and of the work of life. Hence it is that the graduates of the College have had so large a share in the leadership of our country.

Purpose of Carroll College

Carroll College seeks to offer to its students able and effective instruction, in an atmosphere so friendly and helpful, and with associations so stimulating, as to discover and develop the best powers and abilities of each. It has always been, and continues to be, the primary purpose of the college, to maintain and promote the ideal of a broad, liberal culture, to direct its activities and methods toward the development of mind and character, the making of men and women.

Courses of Study

At the same time due recognition is given to the conditions and demands of contemporary life. Recent and prevailing tendencies have thrown added emphasis upon the function of the college in the training of the individual for the service of society. The largely increased, and increasing, demands of professional and technical training, the need of greater adaptability and command of individual powers in commercial and industrial life, make the disciplinary and cultural training of the college increasingly necessary for success therein. The courses of study in Carroll College represent an attempt to preserve a just balance between studies of cultural and disciplinary character and those possessing an intrinsic practical value. The system of major and minor studies, of broad and representative required subjects, with large opportunities for elective work, makes it possible for the student, while pursuing a liberal course, at the same time to concentrate his attention and effort upon some one subject to such a degree as to realize in that subject a

considerable acquisition and attainment, some degree of mastery, which may be utilized in a practical way after graduation.

Location

Carroll College is very favorably located at Waukesha, a city easily accessible from all parts of Wisconsin and adjacent states, through the fact that it is situated on the three principal railway lines of the state, the Chicago and Northwestern, the Chicago, Milwaukee, and St. Paul, and the Chicago division of the Minneapolis, St. Paul, and Sault Sainte Marie (Soo Line). It is one hundred miles from Chicago by any of the above named railways, and twenty miles from Milwaukee. Hourly service to the latter city, and to the lake region adjacent to Waukesha, is provided by the electric interurban railway, and frequent service by two steam railways.

Waukesha is a beautiful and progressive city of twelve thousand population, in the populous lake region of southeastern Wisconsin, a country of rare beauty and of high development. Situated as it is in the heart of the busy commercial and industrial section of the state, it affords, especially to students in commercial and technical subjects, rare opportunity for contact with the actual institutions and processes of trade and industry. Furthermore, Waukesha is provided with all the utilities that make for convenience and satisfaction, and with the civic and cultural institutions that provide the most favorable college atmosphere. Its proximity to, and easy communication with, Milwaukee, and other important centers of life and activity, offer the student the opportunity of all desirable contact with the stir and movement of life in the city and with the cultural and helpful elements of city life, and at the same time, the compensating condition of withdrawal from any disturbing and distracting elements of such life.

Campus

The campus consists of a wooded tract of fifteen acres on the hills to the south of the Fox River, a most favorable situation for the college. An historic interest attaches to the campus in the presence here of several large Indian effigy mounds and an Indian cornfield.

Equipment of the College

Carroll College is well provided with the equipment necessary for the work of a progressive college. Plans have been made for a consistent and harmonious group of buildings, four of which have been completed and are now in use. These are all handsome and substantial structures of the native limestone of the region. Provision has been made for the early erection of other buildings of the group.

Main Hall

Of this group the central building is Main Hall, completed in 1900. This is a substantial building of stone, beautiful in appearance and convenient in arrangement. In the basement, or ground floor, are the gymnasium and bath and locker rooms for young men. The first floor contains the offices of the college, the rooms of the music department, and several recitation rooms. The library reading room and chapel occupy the entire second floor. On the third floor are several recitation rooms and stack rooms for the library.

Rankin Hall of Science

The Walter L. Rankin Hall of Science, erected in 1906, through the munificence of Mr. and Mrs. Ralph Voorhees, is devoted principally to the laboratories and recitation rooms of the departments of Chemistry, Biology, and Physics. The edifice is three stories in height with a high basement, making practically four stories. It has a south frontage of 132 feet and is 53 feet deep. All of the rooms are well lighted, ventilated, and heated. The departments of Chemistry and Physics occupy the first floor and a portion of the basement. The department of Biology and recitation rooms of other departments occupy the second floor. The third floor contains a large hall for lecture purposes and two halls for literary societies.

Chemical Laboratories

The department of Chemistry occupies two-thirds of the first floor and a portion of the basement of Rankin Hall. Four laboratories are available for student use—a general labora-

tory, advanced laboratory, water analysis laboratory, and photographic dark room, besides the lecture room, instructor's private laboratory, balance room, and various stock rooms for the storage of chemicals and apparatus. All the laboratories are thoroughly ventilated by forced draft, and are equipped with gas, running water, and modern laboratory desks.

The general chemistry laboratory has accommodations for sixty students, and is equipped with all the chemicals and apparatus necessary for a thorough course in general chemistry.

The advanced laboratory is equipped with desks for thirty-six students. This laboratory is used by the class in analytical chemistry every year, and by the classes in physical and organic chemistry in alternate years. Besides the usual glassware and chemicals, the laboratory is well equipped with drying ovens, electric heaters, steam baths, furnaces, and other special apparatus. Adjoining the advanced laboratory is a balance room, equipped with modern precision balances, set on a concrete slab. The supply of apparatus for special types of analytical work is unusually complete, including a Parr adiabatic calorimeter, Pulfrich refractometer, polarimeter, spectroscope, two hand centrifuges, viscosimeter, penetrometer, and apparatus for the testing of foods, physiological materials, gases, etc.

The water analysis laboratory is provided with twelve desks, and is equipped for the sanitary and mineral analysis of water.

The dark room is used by the classes in physical chemistry, and photo-chemistry, and also by the physics department, and it is well equipped with photographic materials.

Mention should also be made of the very excellent collection of organic chemicals, including dyes, in the possession of the department.

Physical Laboratories

The lecture room and laboratories of the Department of Physics occupy the west end of the first floor, and a portion of the basement, of the Rankin Hall of Science.

The laboratory of general physics is 53 x 24 feet, with a south, west, and north exposure. It is well lighted and is pro-

vided with shades of special construction for darkening the room. It contains large wall cases, which are well supplied with apparatus for use in the study of mechanics, heat, sound, light, and electricity. The laboratory contains an instructor's table and tables for forty students working at one time. These tables are supplied with gas and water, and with electric connections with the large storage battery located in the basement. An office and store room open into this laboratory.

The lecture room opens into the office and store room. It has seats for fifty students and is provided with a lecture table supplied with gas, water, storage battery connections, and direct and alternating current. The room can be darkened at any time, and is provided with a heliostat, stereopticon, and screen. The store room is well supplied with apparatus for class demonstration and illustrated lectures.

In the basement there is a laboratory for advanced work in magnetism and electricity. In addition to a new collection of measuring instruments and a large storage battery there are five dynamos and motors, illustrating both direct and alternating current types of machines. The laboratories are connected with the city electric plant.

Biological Laboratories

The laboratories for biology occupy the greater part of the second floor of Rankin Hall of Science. The laboratory for general biology is a large, well lighted room with desks and lockers for twenty-eight pupils working at one time. There are two microscope cases with lockers for compound microscopes and cupboards for other supplies. Adjoining this laboratory, is a preparation and general supply room, where imbedding and sectioning may be done. There is an advanced biological laboratory equipped with desks, lockers for eighteen microscopes, and cupboards for other supplies. Just off from this is a dark-room fitted for all kinds of photographic work, and used also for experiments in plant physiology. A lecture room, accommodating fifty students, is fitted with a stereopticon and screen and can be darkened at any time.

The equipment of these laboratories includes, in addition to the fixtures already referred to, thirty compound microscopes,

dissecting microscopes, microtomes for all kinds of sectioning work, including a Minot automatic rotary microtome of the latest model, a sliding microtome of the latest type, drying ovens, paraffin baths, steam sterilizer, camera lucida, stage and eyepiece micrometers, injecting apparatus, animal cages, collecting cases, gas pressure regulator, thermo-regulators, balances, and a collection of histological slides of different plant and animal tissues. Glass ware, stains, and reagents are provided for microscopical, histological, and general laboratory work. A laboratory for general bacteriology is equipped with standard apparatus of the most approved type. The laboratory for experimental biology is well supplied with instruments for the study of vital phenomena in both animals and plants. Recent additions in this laboratory include anthropometric apparatus for the complete and scientific study of the development, strength, and symmetry of the human body.

Library

Voorhees Library of Carroll College is supported by an income from the sum of twenty thousand dollars given for the endowment of the library by Mr. and Mrs. Ralph Voorhees of New Jersey, and by special appropriations. The books are carefully selected with special reference to the needs of the several departments. They are catalogued and arranged according to the Dewey system of classification. The collection includes over one thousand bound volumes of leading periodicals which are of value in reference work through the aid of *Poole's Index* and *Reader's Guide to Periodical Literature*. These files will be completed as soon as possible. The library is well supplied with standard works of reference. Reserve shelves are provided on which are placed books for special readings assigned by the various departments.

The reading-room is a large well lighted room, tastefully decorated, and furnished in mission style. Reading tables are abundantly supplied with daily and weekly papers, current magazines, literary reviews, and scientific journals. Additional space for books is provided in the stack rooms on the third floor of Main Hall.

The library is open for reading and study from 8 a. m. to 5 p. m., and from 7 to 9 p. m., except on Saturday, when it is

open from 9 to 12 a. m. Students have free access to the shelves and are permitted to draw books by complying with customary library restrictions. In research work and in the preparation of orations and debates the facilities of the library may be supplemented by those of the very complete public library of Milwaukee and of the Carnegie Library of Waukesha, to both of which students have access.

Elizabeth Voorhees Dormitory for Women

This building is the gift of Mr. and Mrs. Ralph Voorhees, and, at the request of her husband, is named in honor of Mrs. Voorhees. It was planned after a careful study of the most modern dormitories elsewhere, and embodies the best standards of comfort and convenience. Like the other buildings it is of the famous Waukesha limestone. Each floor has spacious halls and is amply supplied with lavatory facilities, and the entire building is heated by steam and lighted by electricity. It is thoroughly up to date in all its details, with the appointments of a cultured home. The building has accommodations for eighty girls. Most of the rooms are intended for a single occupant, but some of the larger size are designed for two people, and there are a few suites consisting of parlor and two bedrooms.

The dining-room is large and cheery, and will accommodate one hundred and sixty persons. On the first floor of the dormitory is a large reception room with parlor adjoining, and suites of apartments for the Dean and the Matron. The domestic department is superintended by a competent, experienced Matron.

Quaw Cottage

Through the kindness of Mr. and Mrs. Samuel Quaw of Wausau, Wis., the old Hardy home, a handsome house of stone, adjoining the campus on the north, was purchased in the summer of 1915 and added to the equipment of the College.

Voorhees Cottage

Voorhees Cottage,—like others of the college buildings, the gift of Mr. and Mrs. Ralph Voorhees,—is the residence of the President of the college and is intended as a college home, the center of the life of the college. It is at once beautiful and convenient in all of its arrangements.

Admission

To enter the freshman class of the college, candidates must present a certificate of graduation from an accredited high school, or pass an examination upon the subjects indicated below under the head of Requirements for Admission. Testimonials of good character will be required from those who are not personally known to the authorities of the college.

Registration

Monday and Tuesday of the opening week of the college year are registration days. By special arrangement, registration may be made before these days. For the second semester students must register during the last week of the first semester.

Failure to register at the appointed time will subject the delinquent to a special registration fee of three dollars.

On registration day the student first presents himself to the Registrar, or to a member of the Registration Committee, by whom his credits are considered and his status determined, and with whom he arranges his course of study for the semester.

Students who have chosen a major study are assigned to the professor in charge of the department in which the major work is to be done for consultation in matters concerning choice of studies and general scholarship. Before registering, each student who has elected a major shall consult with his advisor regarding his program for the semester, and shall present a tentative program, approved by his advisor, to the registering officials.

Registration becomes complete when the student presents his registration card, approved and signed by the Registrar, at the Cashier's office and adjusts there the matter of college fees.

After two weeks of a quarter have passed, no change in registration may be made except in consultation with the Registrar and the instructors involved in the change.

No credit may be given for any work for which registration has not been made in advance.

Admission by Certificate

Graduates of accredited schools will, on presentation of a certificate signed by the principal or superintendent, or other authorized officer, be given credit without examination for the work done. Blank forms of application for admission may be secured at any time by addressing the Registrar. They should be filled out and returned direct to the Registrar, by September first.

Admission by Examination

Candidates for admission to the freshman class, coming from schools not accredited, or having credits that are not entirely satisfactory, may have the privilege of proving themselves worthy of entrance by taking a written examination. Such examination will be appointed for Monday of registration week.

The courses outlined in the High School Manual of the State of Wisconsin represent in general the character of the work required for admission.

Requirements for Admission

The requirements for admission are based upon a preparatory course of four years, with four subjects each year. A year's work in a subject, with five recitations per week, constitutes a unit. For admission to the freshman class, candidates must offer a total of fifteen units selected from the list given below.

The subjects in which these units may be presented with the maximum number accepted in each are as follows:

Group A

English	4	Economics	$\frac{1}{2}$
Greek	3	Physiography	1
Latin	4	General Science	1
French	4	Physics	1
German	4	Chemistry	1
Mathematics	3	Botany	1
History	4	Zoology	1
Civics	$\frac{1}{2}$	Physiology	$\frac{1}{2}$

Group B

Agriculture	1	Bookkeeping	1
Mechanical Drawing	1	Commercial Law	$\frac{1}{2}$
Manual Arts	1	Commercial Geography	$\frac{1}{2}$
Domestic Science	1	Stenography & Typewriting	1

I. The following units are required of all :

English	3	History	1
Mathematics	2	Science	1

II. In addition to the required units under I, the following are advised :

Foreign Language	2	units in one language
History	1	
Science	1	

III. In addition to the units prescribed and advised under I and II, a sufficient number of units to make a total of fifteen units may be offered from Groups A and B above. Not more than four units may be offered from group B.

Foreign Language Arrangement

Students may enter the college without preparation in foreign language. If they intend to become candidates for the degree of A. B., however, they will be expected to have completed thirty-two hours in foreign language before graduation. It is highly desirable, therefore, that those who intend to seek this degree should present for admission at least two units in foreign language. However it is possible for those who have not such preparation to complete the entire amount of required work in this subject during, and as a part of, the regular college course. For the degree of Ph. B. no foreign language is required either for entrance or graduation; but it is advised that at least two years of such work be taken.

Scope of the Preparatory Work

The following description may serve to indicate, in a general way, the kind and extent of preparation necessary to meet the requirements of the college in certain of the subjects named in the preceding requirements for admission :

English

Preparation in English should be such as to accomplish two objects : (1) command of correct and clear English ; (2) ability to read with accuracy, intelligence, and appreciation. Such work should include :

- (a), (b) A review of English Grammar ; extensive and thorough work in composition ; reading of selected classics from the uniform list of college entrance requirements in English, or equivalent works. 2 units.

- (c) History of English and American Literatures, with readings from representative authors of each period studied. 1 unit.
- (d) Advanced study of English Classics: an intensive study of typical examples of the important and vital forms of literature. 1 unit.

French

- (a) Pronunciation; the elements of grammar; reading of 100 to 200 pages of graduated text, accompanied by exercises in composition. 1 unit.
- (b) Further work in grammar; 250 to 400 pages of French, chiefly prose, with appropriate exercises in composition and conversation. 1 unit.

German

- (a) Pronunciation; the elements of grammar; reading of 75 to 100 pages of graduated text, accompanied by exercises in composition. 1 unit.
- (b) Further work in grammar; 150 to 200 pages of German, chiefly prose, with appropriate exercises in composition and conversation. 1 unit.

Latin

- (a) Elementary Latin; inflections and constructions. Translations and elementary prose. Outline of Roman History. 1 unit.
- (b) Latin Grammar. Caesar's *Commentaries*, four books, or an equivalent. Latin Prose Composition. 1 unit.
- (c) Cicero: five orations and selected letters. Latin Prose Composition completed. 1 unit.
- (d) Virgil's *Aeneid*, six books; Mythology. 1 unit.

Mathematics

- (a) Algebra, through simple quadratic equations. Special attention should be given to the use of symbols of grouping, factoring, fractions, simple linear equations

and systems of equations with careful analysis of easy problems solved by them, the solution of the quadratic equations and problems involving them, and such theorems in surds and imaginaries as are necessary in the treatment of the quadratic. 1 unit.

- (b) Plane Geometry, as given in Wentworth, or an equivalent text, with original problems. 1 unit.
- (c) Solid Geometry, including spherical, with easy original problems. $\frac{1}{2}$ unit.
- (d) Algebra. Review of the work of the first year with advanced work in ratio, proportion and variation, the progressions, binominal theorem, the graph and logarithms. $\frac{1}{2}$ unit.

Science

- (a) Physics. One year's work in elementary physics, such as is covered by the standard elementary text-books. At least one-half of the work should consist of laboratory exercises. 1 unit.
- (b) Chemistry. General chemistry, recitations and laboratory work throughout the year. The ground covered should be that of the best chemistry text-books, such as Remsen's Briefer Course. 1 unit.
- (c) Zoology. One year's study of animal structures, habits and general life history will be accepted, provided that laboratory practice and field work have formed part of the course. 1 unit.
- (d) Botany. One year's work in structural and systematic botany. Laboratory practice and field work must form an important part of the course. At least 100 hours should be given to laboratory work, besides field work. 1 unit.
- (e) Physiography. One year's work. The recitation work should be supplemented by the making and study of maps, and by field work. Tarr's *Elementary Physical Geography*, or an equivalent text, is suggested. A portion of the course, from one-fourth to one-half, may include Commercial Geography. 1 unit.

- (f) Physiology. Human anatomy, histology, and physiology, and the essentials of hygiene. $\frac{1}{2}$ unit.
- (c), (d) and (e) may be presented in half units.

History

- (a) Ancient History to the year 800 A. D., with special reference to Greek and Roman History. 1 unit.
- (b) Mediaeval and Modern History from 800 A. D. to the present time. 1 unit.
- (c) A general course in American History or English and American History. 1 unit.
- (d) American History and Civics. 1 unit.

Admission to Advanced Standing

Advanced credit may be granted in Carroll College for work done in other institutions, under certain conditions. The certified record of work done, accompanied by a letter or statement of honorable dismissal, should be sent direct to the Registrar of the college.

I. FROM COLLEGES AND UNIVERSITIES: Full credit is given for work completed in institutions of recognized collegiate standing, upon presentation of proper credentials.

II. FROM NORMAL SCHOOLS: Graduates of the Normal Schools of Wisconsin will be granted advanced credit under the following conditions:

1. Graduates from the two-year college courses of the Normal Schools who shall have satisfied all requirements for admission to such courses, will be granted junior standing in the college, with a maximum of sixty-four hours of credit.

2. Graduates from the two-year professional courses in the Normal Schools, who shall have satisfied all requirements for admission to the college course, may be granted junior standing in the college with a maximum of sixty hours of credit. The amount of credit given will depend upon the work taken in the Normal School.

III. FROM HIGH SCHOOLS: Credit may be granted for high school work in excess of fifteen units, provided the student has a record of good work in the high school and passes a successful examination in the studies for which advanced credit is sought. Under such conditions an amount of credit may be granted in college equivalent to half of the credit given in the high school.

Relation to the University of Wisconsin

An agreement has been entered into with the University of Wisconsin whereby both institutions have the same entrance requirements and the same list of accredited schools. Students who change from one institution to the other will be given the rank of sophomores or juniors, if the change is made at the end of the first or second year of their work. It is not advisable for students to make a change at the end of the junior year, but where such cases occur they will be dealt with on their individual merits. Students who include in their full course at Carroll the pre-engineering group of studies can enter the engineering department of the University of Wisconsin and complete a technical course in two years. Those who enter before graduation will be given the same credits as students who transfer from the College of Letters and Science of the University to its engineering department.

Studies and Graduation

In the grouping and arrangement of studies in Carroll College two objectives are sought:

I. A distribution of the student's effort and work among the following divisions of knowledge and study:

- (1) Language and Literature.
- (2) History and the Social Sciences.
- (3) Mathematics and Science.
- (4) Philosophy and Education.
- (5) Biblical Literature and Religion.

Such object of distribution is secured, in the freshman year, by a system largely of required courses, with limited opportunity of election; in subsequent years it is secured by the varied range of subjects required for degrees and by the directive influence of the college in the matter of the choice of subjects on the part of the student.

II. Concentration of a part of the student's work upon some defined field, with the purpose of attaining some approach to mastery in that field. This concentration is secured by the requirement that each student shall choose some field of study as his major subject and apply to that subject, and to related subjects, a certain minimum amount of time and effort.

Such plan of distribution and concentration recognizes and provides for the two important objectives in education, the cultural and the practical.

Plan of Work and Credits

The college year is divided into two terms, designated semesters. The unit for computing the amount of work accomplished and required is the *credit*. It is assigned to one hour of recitation or lecture, or two hours of laboratory work, per week for one semester.

The normal amount of work which a student is expected to carry in one semester is 14 to 16 hours. Students who may wish to elect fewer than 14 credit hours must secure permis-

sion to do so from the faculty. Students who have received a grade of *good* in each study of the preceding semester may take extra studies to an amount not exceeding 18 credit hours. No student will be permitted during one semester to receive more than 18 credit hours toward graduation except by permission of the faculty obtained in advance.

Degrees

Any student, who shall have completed the work required for a degree as indicated below, and who shall have been in residence at least one year immediately preceding the application for such degree, is eligible to graduation.

On the fulfillment of the requirements for graduation, and on recommendation of the faculty, the student may receive one of the following baccalaureate degrees conferred by Carroll College; Bachelor of Arts, with standard requirements in foreign language; Bachelor of Science, with increased requirement in science and slightly reduced requirement in foreign language; Bachelor of Philosophy, with the possibility of the substitution of other designated subjects for the foreign language; and Bachelor of Music, given for extensive and scholarly work in Music, together with certain designated academic subjects.

Requirements for the Degree of Bachelor of Arts

For the degree of Bachelor of Arts one hundred and twenty-eight hour credits are required, four of which may be taken in physical education, and four in extra-curricular work, such as debate, glee club, orchestra, or editorial work.

The 120 hours of recitation, lecture, and laboratory work required for graduation include:

- (1) Courses required of all candidates for a degree;
- (2) Courses in the major subject; and
- (3) Elective courses.

1 Required Studies

The following courses are required of all candidates for the degree of Bachelor of Arts.

- (a) English 1, 2: six credits, to be taken in the first year.
- (b) Foreign Language: thirty-two credits in two, or more, foreign languages. These credits may be secured partly in high school and partly in the college, or wholly in the college. High school work is accepted at the rate of one unit for four college credits up to the amount of six units or twenty-four college credits. In any case a minimum of eight hours of foreign language must be taken in college.

Students must have at least four units of high school work, or sixteen credits in the college, in one language, or the equivalent in combined high school and college work in one language.

Similarly students must have at least two high school units, or eight college credits, in a second language.

One high school unit in language will be accepted only in case the student successfully continues this language in the college for at least one semester.

A student, therefore, who has two years of high school language needs twenty-four additional credits for graduation; if he has had three years, he needs twenty credits, etc.

- (c) Two of the following:
 - (1) History: six credits.
 - (2) Mathematics: six credits.
 - (3) Science: ten credits.
- (d) Biblical Literature: eight credits.

2 Major Study, Minor Study, and Thesis

Major Study: At any time after matriculation, and in no case later than the beginning of the junior year, each student is required to select as his major subject the work of some one

department in the college, and, in consultation with the head of this department, who becomes his college advisor, to determine the manner and order in which the work of the major subject, and related subjects, shall be completed. The work required in the major subject shall not be less than twenty, nor more than forty hours.

In the following departments work is offered leading to a major:

Biology	English
Education	French
Chemistry	History and Political Science
Commerce	Latin
Economics	Mathematics

Minor Study: Associated with the work in the major subject should be a considerable amount of work in a related field of study. A minimum of sixteen hours should be taken in the minor subject.

Work satisfying the requirement of a minor may be taken in any department in which major work is offered, and, in addition, in the following subjects:

Biblical Literature	Philosophy
German	Physics
Greek	Psychology
Literary Interpretation	Spanish
and Dramatic Literature	

Thesis: Candidates for a baccalaureate degree may be required to present a graduating thesis, the subject of which must be approved by the head of the department in which the candidate is doing the work represented by the thesis. The thesis must represent some phase of the student's work in his major study, and must have the character of a scholarly dissertation on the subject. A maximum of four hours of credit may be given for the thesis.

3 Electives

All the work not included under 1 and 2 is elective and should be chosen in consultation with a member of the Committee on Registration and Curriculum, or with the head of

the department in which the student is doing his major work. Credit toward graduation shall not be given in one department for more than forty hours.

Studies of the Freshman Year

The studies of the freshman year are largely prescribed. In addition to the prescribed courses, a limited range of choice is permitted, sufficient in quantity to constitute a total of thirty or thirty-two credit hours for the entire year.

1. The prescribed subjects are as follows:

English 1, 2: six credits.

Foreign Language: six or eight credits.

Biblical Literature 1, 2: two credits.

2. The elective subjects are as follows:

Science: ten credits in biology or chemistry.

History: six credits.

Mathematics 1, 2: six credits.

Foreign Language: work in addition to requirement under 1.

Economics 1, 2: six credits.

Studies of the Sophomore Year

In the sophomore year the student may elect any of the subjects open to freshmen, and in consultation with registering officials, more advanced courses in the following subjects:

Biblical Literature

Biology

Chemistry

Commerce

Economics

Education

English

Foreign Language

History

Home Economics

Library Methods

Literary Interpretation

Mathematics

Philosophy

Physics

Psychology

Political Science

Public Speaking

Sociology

The required subjects not yet completed should be included in the work of this year.

Junior and Senior Years

In these years a wide range of subjects is open to the student. By the beginning of the junior year he should have determined his major subject and should henceforth devote a considerable portion of his time to advanced, intensive work in this subject and cognate subjects.

Requirements for the Degree of Bachelor of Science

For the degree of Bachelor of Science the requirements are the same as for the degree of Bachelor of Arts, except in the following particulars:

- (a) Foreign Language: twenty-four credits. At least two years must be offered in French or German.
- (b) Science: sufficient credits in one science to constitute a strong major, and sufficient credits in other science to constitute a strong minor.
- (c) Mathematics: six credits. (If the major is in chemistry, nine.)

Requirements for the Degree of Bachelor of Philosophy

For those not prepared to meet the full requirement in foreign language for the degrees of Bachelor of Arts and Bachelor of Science, the degree of Bachelor of Philosophy is offered, either without foreign language, or with a reduced amount. The general requirements are the same as for the degree of Bachelor of Arts. The following special requirements apply:

- (a) English: twelve credits.
- (b) Science and Mathematics: a total of twenty credits to be taken in year courses.
- (c) Two of the following groups:
 - 1. Philosophy or Mathematics: nine credits in one of the two. Mathematics may not be offered here and under (b) above.
 - 2. History: twelve credits.
 - 3. Foreign Language: fourteen credits. Not more than eight of these may be in an elementary course.

Honor Credits

In addition to the quantitative measure of work and accomplishment provided in the requirement of 128 hour credits for a degree, a qualitative measure is provided in the further requirement that each student must earn at least 128 honor credits, or an approximate average in all courses of C, or higher. He must earn at least 16 honor credits per semester to maintain his class standing, and must earn at least one half of the total number required in the first two years of his college course.

Class standings are indicated by letters. A, B, C, and D are passing grades. For a grade of A in a given course, the student will receive three times as many honor credits as there are hour credits in the course; for a grade of B, twice as many honor credits as hour credits; and for a grade of C, as many honor credits as hour credits.

Preparation for Professional Courses

By a combination of the major system and required studies, Carroll College aims to secure two results for her students: to give the breadth of culture, extent of information, and training of the mental powers needed as a basis for all lines of activity; to provide for each student the opportunity of becoming well acquainted with some field of knowledge that will specially prepare him for the professional study that he may intend to pursue.

By a careful grouping and co-ordination of courses in different departments of the college, helpful and, often, time-saving approaches may be made to the various professions and technical pursuits. In some cases complete and balanced courses have been planned, preparing definitely for such objectives.

Teaching

Students who are planning to become teachers should take their major work in some department in which they expect to teach and a minor in a related department, or in education. In addition the teachers' course requires a completion of fifteen hours of definitely prescribed professional courses, which best

fit the student for high school teaching and state certification. A completion of the course will prepare the student for state certification in Wisconsin and other states. The statement of the required professional courses, for those taking the teachers' course, is found in this catalog under the department of Education and Psychology, page 62.

A most excellent opportunity for practical training is provided through the arrangement whereby students of the college may pursue observation and practice teaching in the Waukesha High School under the instruction and direction of Superintendent Banting.

A Teachers' Appointment Committee gives careful attention to the placement of teachers. All students expecting to be teachers may avail themselves of the services of the Committee by the payment of a small fee, covering the expenses of the Committee. The credentials of all teachers enrolled with the Committee are kept up to date, so that they may avail themselves of the services of the Committee at any time. Complete records are kept of teaching alumni. Alumni, once enrolled with the Committee, may use the services of the Committee in locating possible openings and in forwarding their credentials to positions, for which they would like to make application.

Medicine

The departments of Biology and Chemistry offer a number of courses which will be of great value to the student who plans to enter a medical college. The laboratories of these departments are well equipped and the courses offered are designed to give the student a working knowledge of these sciences. By proper co-ordination of his work here with that of the medical school it is possible for the student to reduce the total number of years required to obtain the degrees of Bachelor of Arts, or Bachelor of Science, and Doctor of Medicine. Groups of studies which are suited to the needs of the pre-medical students are described in connection with the departments of Biology and Chemistry.

Law

Like other professions, that of the law is today making large demands of preparation from those who would enter the

profession. The better law schools of the country are now requiring a considerable part, or the whole, of the college course for entrance. In the courses offered in history and political science, economics, languages, English, commerce and sociology, will be found excellent preliminary training for the successful study and pursuit of the profession of law.

Theology

In no field of work is the broad range of college subjects and study more important and valuable than in the work of the minister of religion. As an interpreter of life he should have a wide knowledge of science, history, literature, language, philosophy, the social sciences. While courses in theology do not form a part of the college curriculum, work especially adapted to the student for the ministry is offered in nearly all of the college departments.

Engineering

No attempt is made by the college to give a complete course in engineering. At the same time much of the work of such a course is offered in the departments of Mathematics and Science, work which may apply on the course in technical school should the student wish to continue there. The courses offered in the college include the mathematics, the fundamental sciences, and the modern languages, which form an important part of all engineering courses. More technical courses, specially adapted to the engineering student, are offered in mechanical drawing, descriptive geometry, surveying, industrial chemistry, bacteriology, mineralogy, mechanics, and electrical measurements.

The courses in mathematics, physics, mechanical drawing, descriptive geometry, mechanics, surveying, and chemistry are so arranged as to enable the student of engineering to satisfy, during his freshman and sophomore years, the engineering requirements in these subjects of the first two years at the University of Wisconsin. After two years in Carroll College the student may, in two additional years, complete the requirements for an engineering degree. It is recommended, however, that he

complete his college course before entering a technical school. He may thereby secure additional training of great value to the engineer, in the sciences, in mathematics, and in commercial subjects.

Commerce and Business Administration

The statement that the time is past when the professions may be entered through the hard school of experience has become true of commerce and business as well as of medicine and law. Old methods of preparation have proved too costly, both to candidate and to clientele. In recent years, therefore, business has advanced to a position among the professions demanding trained and technical knowledge and skill.

In consequence there has arisen a demand constantly increasing, for men possessing, in addition to the fundamental qualities of industry, intelligence, integrity, a thorough knowledge of principles underlying all industry and trade.

In view of this demand Carroll College is now offering, in the departments of Commerce and Economics, and in other departments, work that may be co-ordinated and organized into a complete and balanced four-year course in Commerce and Business Administration.

In addition to the opportunities of instruction provided by the College, the student in Carroll College has the further advantage deriving from the location of the college in Waukesha, in the busy commercial and industrial section of the state. Here in the many large and noted industries of Waukesha, and of Milwaukee and other nearby industrial cities, he has large opportunity of contact with the actual institutions and activities of industry and trade and consequent opportunity of observation, experience, and employment.

Journalism

While the college does not attempt to offer a complete professional course in journalism, yet, in the work of various departments, the major part of such a course is given. Work in subjects entering into such a course, in the departments of

English, foreign language, history and political science, economics, and sociology, may be effectively co-ordinated toward such an objective. Opportunity for practical experience is provided in connection with the college publications and otherwise.

Secretarial Work

Studies from the different departments of the college may be so grouped and related as to provide preparation for the position of a secretary or office manager. To this end courses offered in the departments of English, Economics, Commerce, and Language may largely contribute.

Graduate Work

An ever increasing number of Carroll students are taking advantage of the opportunities presented by the universities for graduate study. A large number of Carroll graduates secure fellowships. The faculty advise any student desiring to pursue graduate study to consult with the Registration Committee at the beginning of the senior year.

Departments of Instruction

The work of the college is organized under the following Departments of Instruction:

BIBLICAL LITERATURE AND RELIGIOUS EDUCATION.

BIOLOGY.

CHEMISTRY.

CLASSICAL LANGUAGES.

COMMERCE.

ECONOMICS.

EDUCATION AND PSYCHOLOGY.

ENGLISH.

GERMAN.

HISTORY AND POLITICAL SCIENCE.

HOME ECONOMICS.

LIBRARY METHODS.

LITERARY INTERPRETATION AND DRAMATIC LITERATURE.

MATHEMATICS.

MUSIC.

PHILOSOPHY.

PHYSICS.

PUBLIC SPEAKING.

ROMANCE LANGUAGES.

SOCIOLOGY.

The following departmental statements represent the work that the college is prepared to offer under proper conditions of need and demand. Most of the courses offered are given regularly every year. Some of the courses are given in alternate years, and a few at longer intervals. The arrangement is such, however, that a student may obtain during the normal period of college residence any course that he may need or desire.

BIBLICAL LITERATURE AND RELIGIOUS EDUCATION

PROFESSOR DAVIES

The courses in Biblical Literature are designed to give the student a good general knowledge of the Bible and a sane interpretation of its message.

For graduation, eight hours in the Department of Biblical Literature are required. Course 1-2 is required of all freshmen.

Additional courses will be given in Religious Education as the demand for such courses becomes manifest.

1, 2 The Life of Christ

A study of the life and teachings of Christ in the light of the social, political, and religious situation of the times.

First and second semesters. One hour. Required of all freshmen.

3 Old Testament History

A History of the Hebrew people in Old Testament times, including the Intertestamental Period. Attention is given to the beginnings of the Hebrew race and the development of their religious and political institutions. This implies a thorough study of the historical events with a discussion of their religious significance.

First semester. Three hours.

6 The Work and Teachings of the Apostles

This course deals with the founding of the Christian Church, and the early growth and expansion of Christianity as indicated in the Acts of the Apostles. It includes also a survey of the Epistles, with special emphasis on the Epistles of Paul.

Second semester. Three hours.

7 The Main Points in Christian Belief

A lecture course given to a discussion of the essential beliefs and doctrines of Christianity.

First semester. One hour.

8 The Social Teachings of the Bible

An examination of the social message of the Old and New Testaments with special attention given to the social teachings of the prophets and Jesus.

Second semester. One hour.

9 The Principles of Religious Education

Attention will be given to the following: the teacher; the great objective; religious knowledge of most worth; religious attitudes to be cultivated; connecting religious instruction with life and conduct; the subject matter of religious education; the organization of material; the technique of teaching; making truth vivid; types of teaching; methods used in the recitation.

First semester. Two hours.

10 The Organization and Administration of Religious Education

The following will be among the subjects considered: a rapid survey of the psychology of childhood; the organization of the Sunday School by departments; the organized class; boys' and girls' clubs; missionary education; the Daily Vacation Bible School; and Week Day Religious Instruction.

Second semester. Two hours.

11 The Religions of Mankind

A study of the beliefs and practices of the prominent ethnic religions of the world, and a comparison of these with Christianity.

First semester. Two hours.

12 Church History

A history of the Christian Church from its establishment to the present time. A survey of the growth and expansion of Christianity, with emphasis upon the outstanding movements, problems, and leaders.

Second semester. Two hours.

13 The Gospel of John

A study of the Fourth Gospel, with special emphasis upon its spiritual values.

First semester. One hour.

BIOLOGY

PROFESSOR GRIMM

Biology is so presented as to satisfy the demands both of cultural and of professional objectives. The purpose is so to present the fundamental principles and laws of life as to accommodate students who elect courses in the subject because of its general cultural value, those who are planning to enter medical or other professional work, and those who may seek a teaching knowledge and training in biologic science.

The requirement for a major in biology shall depend in part upon the preliminary training offered by the student and in part upon the nature of the work which the individual expects to pursue. A premedical student, a prospective teacher, and one who selects biology on account of its cultural and general informational value would naturally find quite different interests after the first two years of fundamental courses which shall be required of all major students. In no case shall a major be satisfied with less than 24 hours of academic work in this department.

1, 2 General Biology

A course presenting the fundamental laws of biology. It is the purpose of this course to lay a broad foundation for more advanced work in the department, and at the same time to supply a well-rounded body of useful information to those who may elect the course for its general cultural value. The first semester is devoted to plant biology and the second semester to animal biology. Laboratory fee, \$10.00.

First and second semesters. Five hours.

3 General Physiology

This course may be presented from the standpoint of fundamental underlying principles in which case the work would be roughly divided at the mid-semester into plant physiology and animal physiology, or a course in human physiology may be pursued if the applicants so elect. Laboratory fee, \$10.00.

First semester. Five hours.

4 General Bacteriology

An introduction to the subject of bacteriology and its application in medicine, sanitation and agriculture. The laboratory work includes training in bacteriological technique, the isolation and study of pure cultures and the determination of unknown species. Laboratory fee, \$10.00.

Second semester. Five hours.

5 Vertebrate Zoology

This work is specifically planned to meet the needs of pre-medical students. The comparative anatomy of vertebrate animals is presented in such a way as to afford a logical approach to the subject of human anatomy. Laboratory fee, \$10.00.

First semester. Three hours. Given in 1924-25, and alternate years.

6 Embryology

A course designed to meet the needs of students who intend to study medicine. The development of the pig and chick offer materials for the laboratory work in this course. Laboratory fee, \$10.00.

Second semester. Three hours. Given in 1924-25, and alternate years.

7 Microtechnique

A laboratory course in methods of fixing, imbedding, sectioning, and staining plant and animal materials. Laboratory fee, \$15.00.

First semester. Three hours. Given in 1923-24, and alternate years.

8 Histology

A detailed microscopic examination of normal tissues. The course will be of special interest to pre-medical students and those who may intend to specialize in biology. Laboratory fee, \$10.00.

Second semester. Three hours. Given in 1923-24, and alternate years.

9 **Morphology of Thallophytes, Bryophytes and Pteridophytes**

An advanced course in botany essential for those who expect to teach in high school or who may pursue graduate work in botany. Laboratory fee, \$10.00.

First semester. Three hours. Given upon demand.

10 **Morphology of Gymnosperms and Angiosperms**

An advanced course in the botany of the higher plants. A natural sequence to course 9, courses 9 and 10 to be given only upon request of five or more students. Laboratory fee, \$10.00.

Second semester. Three hours.

11 **Evolution, Genetics and Eugenics**

A lecture course dealing with fundamental biological problems. Open only to juniors and seniors.

First semester. Two hours.

12 **Hygiene and Sanitation**

A course in personal hygiene with some attention to the problems of public health.

Second semester. Two hours.

21, 22 **Methods of Teaching Biology**

A course designed to meet the needs of seniors who expect to teach biology in high schools.

First or second semesters. Two or four hours.

CHEMISTRY

PROFESSOR RAY

The courses in chemistry are designed to meet the needs of three classes of students: those who wish to gain a general knowledge of chemistry as part of a liberal education; those who require a more extended acquaintance with chemistry as a prerequisite to the study of medicine, pharmacy, engineering, etc.; and those who wish to become chemists. Chemistry 1-2

which is a general survey of the subject, is designed to meet the needs of the first of the above-mentioned classes, and is also a foundational course for all advanced work in chemistry. Prospective students of medicine should take organic chemistry (Chemistry 9), which is required by all medical colleges, and will also find a certain amount of analytical chemistry (Chemistry 5) of considerable value in their professional work. Engineers may likewise take Chemistry 5 to good advantage. The student who intends to make some form of chemistry,—research, teaching, or work in the chemical industries,—his life work, will naturally major in chemistry, and will find in the advanced courses of the department, together with allied work offered by other departments of the college, the opportunity to master the basic principles of his chosen profession. Students who complete the work of the major in chemistry are qualified to teach chemistry in the high schools, to enter upon advanced studies in the universities, and will be able to shorten materially the time ordinarily spent by the beginner in acquiring practical knowledge of some particular chemical industry.

In all the courses of the department, elementary and advanced, every effort is made to instill habits of accuracy, industry, honesty, and, above all, clear thinking.

Students majoring in chemistry will be required to take the following courses, or their equivalents: Chemistry 1, 2, ten hours; Analytical Chemistry, five to ten hours; Chemistry 9, 10, ten hours; Chemistry 11, 12, six hours; Biology 4, five hours; Mathematics, nine hours; German 1, 2 and German 3, 4, fourteen hours; French 1, 2, eight hours. The remainder of the work necessary to satisfy the college graduation requirements will naturally be selected by the student, in conference with his instructor, to suit his own individual tastes and needs.

Prospective teachers of chemistry will naturally choose many of their electives in the department of Education; students preparing for work as analytical and sanitary chemists may take additional laboratory courses to good advantage; and students who intend to pursue graduate research are advised to take additional courses in mathematics and languages.

1, 2 General Chemistry

This is an introductory course, covering the general field of descriptive inorganic chemistry, and the fundamental principles upon which modern chemistry is founded. The properties, including important industrial applications, of the elements and their compounds, are discussed in lectures, and studied in the laboratory. The laboratory work of the second semester includes qualitative analysis.

First and second semesters. Five hours.

5 Quantitative Analysis

An elementary course in analytical chemistry. Typical methods of analysis, both gravimetric and volumetric, are studied and applied to the actual analysis of salts and simple mixtures.

Prerequisite: Chemistry 2.

First semester. Three to five hours.

6 Quantitative Analysis

(Continuation of Chemistry 5.) The analysis of more complex substances, such as natural silicates; and special methods of analyses applicable to waters, gases, etc.

Prerequisites: Chemistry 2 and 5.

Second semester. Three to five hours.

7, 8 Technical Analysis

This is a laboratory and conference course, embracing the analysis of gas, oils, fuels, cement, metallurgical products, etc.

Prerequisites: Chemistry 2 and 5.

Either semester. Credit according to work accomplished. Given upon request any year.

9, 10 Organic Chemistry

The systematic study of the compounds of carbon. During the first semester, the work deals chiefly with the aliphatic compounds, many examples of which are prepared and studied

in the laboratory. During the second semester the aromatic compounds, including explosives, medicinals, dyes, and other coal tar products, are considered.

Prerequisite: Chemistry 2.

First and second semesters. Five hours. Given in 1924-25, and alternate years.

11, 12 Physical Chemistry

A study of the fundamental laws and modern theories of chemistry, including those pertaining to the structure of matter, solutions, the factors affecting chemical reactions, and the relations between chemical, electrical, and thermal energy.

Prerequisites: Chemistry 2 and 5, Physics 1 and 2, and Mathematics 3.

First and second semesters. Three hours. Given in 1923-24, and alternate years.

13, 14 Industrial Chemistry

A survey of the most important industrial processes which involve applied chemistry. The lectures are supplemented by monthly trips of inspection to neighboring industrial plants.

Prerequisites: Chemistry 2, and junior standing.

First and second semesters. Two hours. Given in 1923-24, and alternate years.

15 Inorganic Preparations

A laboratory course in the preparation of typical inorganic compounds.

Prerequisite: Chemistry 2 and 5.

Credit according to work accomplished. Given upon request in any year.

17 History of Chemistry

For advanced students.

First semester. Two hours. Given at irregular intervals according to the needs of students.

21 Food Analysis

A laboratory course in the examination of foods, with especial reference to the detection of adulterants.

Prerequisites: Chemistry 2, 5, and 9.

Credit according to work done. Given at irregular intervals according to need.

23, 24 Introduction to Chemical Research

Required of seniors majoring in chemistry. Readings and original experiments upon some selected topic, the results of which must be embodied in a thesis.

First and second semesters. Credit to be arranged.

25, 26 Advanced Chemistry

A lecture, reading, and conference course, the subject matter of which will embrace each year advanced work in some one field of chemistry. The various fields will be taken up in rotation, or in accordance with the needs of the students.

For 1923-24, the field covered will be advanced inorganic chemistry.

First and second semesters. Two hours.

CLASSICAL LANGUAGES AND LITERATURES

PROFESSOR KINGSBURY, PROFESSOR ROGERS

In the presentation of courses in the classical languages and literatures the purpose is to lead to a realization and appropriation of both the practical and the cultural values of such study. To this end stress is laid upon the importance of the study of the ancient languages as affording helpful intellectual discipline, as contributing toward the understanding and mastery of the mother tongue, as providing literary forms and critical standards that have permanent value and application, and as leading to a sympathetic understanding of Greek and Roman thought and culture as important and vital elements in our modern civilization.

Latin

The requirements for a major in Latin are twenty-four hour credits as a minimum, not including Latin 1, 2. Greek to the extent of six credits may be counted toward a Latin major, provided that it is Greek in advance of courses 1, 2.

1, 2 Elementary Latin

For students who enter without Latin. First Year book, followed in the second semester by Caesar's *Gallic War*.

First and second semesters. Four hours.

3, 4 Cicero and Virgil

Open to students who enter with two units of Latin or who have completed course 1, 2. Selected *Orations* of Cicero, and the *Aeneid* of Virgil, books I-VI. Latin prose composition.

First and second semesters. Four hours.

5, 6 Cicero, Livy, Terence

Cicero: *De Senectute*.

Livy: selections, including books XXI and XXII.

Terence: one play, probably the *Phormio*.

First and second semesters. Three hours.

7, 8 Lyric Poetry

Ovid: selections.

Horace: *Odes* and *Epodes*.

Catullus: selections.

First and second semesters. Three hours.

9, 10 Tacitus and Roman Satire

Tacitus: *Agricola* and *Germania*, dealing with Roman influence upon the early civilization of western Europe.

Roman Satire, taking up the study of the *Satires* of Horace. Juvenal and Persius.

First and second semesters. Two hours.

11, 12 Roman Philosophy

Study of selections from the philosophical writings of Lucretius, Cicero and Seneca, with an outline of the history of Roman philosophy.

First and second semesters. Two hours.

13, 14 Latin Prose Composition

A systematic review of Latin Grammar in connection with training in the writing of Latin prose. This course may be elected in connection with any of the Latin courses beginning with Latin 5.

First and second semesters. One hour.

15, 16 Teachers' Training Course

Elective for advanced students planning to teach High School Latin.

First and second semesters. One hour.

Greek

1, 2 Elementary Greek

An introduction to the study of the Greek language for beginners and for those desiring to review the elements of Greek. The course includes a thorough study of the grammar, and, in the second semester, the reading of the first book of Xenophon's *Anabasis*.

First and second semesters. Four hours.

3 Xenophon's *Anabasis*

A reading of the second, third, and fourth books of the *Anabasis*, with frequent exercises in the writing of Greek.

First semester. Three hours.

4 Homer

An introduction to Greek epic poetry, with emphasis on the Ionic forms and the heroic metre. The reading of several books of Homer's *Iliad* or *Odyssey*.

Second semester. Three hours.

5, 6 Lysias and Demosthenes

Selections from the speeches of Lysias and all of the *De Corona* of Demosthenes are read.

First and second semesters. Three hours.

7, 8 Greek Drama

A careful study of the development and structure of the Greek drama is made, and plays of Aeschylus, Sophocles, Euripides, and Aristophanes are read.

First and second semesters. Three hours.

9, 10 Greek Philosophy

Plato's *Apology*, *Crito*, *Phaedo*, and selections from the *Republic* are read. A course of lectures on Greek philosophy is given.

First and second semesters. Three hours.

11, 12 The Classical Foundations of Modern Civilization

A knowledge of Greek and Latin is not required. Open to students of all four classes. A study of the heritage of modern civilization from the ancient Greek life, culture, institutions and literature. The value of this course lies in its broad cultural and historical foundations, showing why we think as the Greeks thought, not as orientals or barbarians.

First and second semesters. Three hours.

13, 14 Hellenistic Greek

A study of the Greek Testament, to master its grammar and vocabulary by reading, analyzing and interpreting the Gospels according to St. John and St. Mark and the Acts of the Apostles.

Elective for freshmen and others not taking classical Greek, but preparing for the ministry or other Christian work, as part of their foreign language requirement.

First and second semesters. Three hours.

COMMERCE AND BUSINESS ADMINISTRATION

PROFESSOR FORSBERG

In response to the growing demand for scientific preparation and training for business careers, the department of Commerce and Business Administration was organized and has committed itself to this task. Its professed purpose is to develop in young people of character, initiative, and industry, a capacity for future executive responsibilities. The studies are designed to provide a training, thorough in its emphasis upon the mastery of business technique, that is based upon a broad outlook on life, enriched by the liberalizing influences of the prerequisite humanities offered by Carroll College in the liberal arts and sciences.

The requirements for graduation with a major in Commerce and Business Administration consist of: (1) a total of 128 hours; and (2) Economics 3, Commerce 1a, 2a, and 18 hours of Commerce selected in conference with the head of the department.

Accounting

1a, 2a Introductory Accounting

A study built along the lines of modern business practice with special emphasis on the part that accounting may play as an aid to business administration. Throughout the course the principles considered are developed by means of class discussion and illustrative laboratory exercises, in which the aim is to keep the amount of bookkeeping routine at the lowest point which is consistent with a thorough understanding of the principles involved in sole proprietorship, partnership, voucher, corporation accounting.

First and second semesters. Three hours.

3a Advanced Accounting

The theory and practice of accounting and auditing; analysis of business fact by accounting methods; the relation of the accountant as auditor to business; study of specimen audits and the preparation of reports.

Prerequisite Commerce 1a, 2a.

First semester. Three hours. Given in 1923-24, and alternate years.

5a Industrial Cost Accounting

Cost accounting for the business manager as a means for control of production; elements of costs; principles and general methods of cost finding; wage systems; compiling of cost data; control of cost records by financial books; devising of cost systems.

Prerequisite: Commerce 1a, 2a, and consent of instructor.

First semester. Three hours. Given in 1924-25, and alternate years.

6a Statistical Methods in Business

A study of the elementary principles of statistics as methods of scientific study and interpretation of business and economic phenomena. The collection of data; nature and causes of error, classification, frequency distributions, forms of averages, tabulation and graphic presentation of statistical results.

Second semester. Three hours. Given in 1924-25, and alternate years.

Mathematics of Finance

See Mathematics 4, page 79 for description.

Business Administration and Law

10 Business Structure and Management

A general survey of the basic features and problems of business administration; plant location, layout and construction; problems and production, personnel, marketing, finance; business policies and methods as viewed from the manager's desk.

Second semester. Three hours.

11 Corporation Finance

Essential principles of sound corporation finance; promotion and capitalization of corporations; issue and sale of securities; management of corporate income; determination of profits; distribution of surplus; combination; consolidation; manipulation; insolvency; receivership; reorganization and regulation.

Prerequisite: consent of the instructor.

First semester. Three hours. Given in 1924-25, and alternate years.

12 Transportation and Administration

The development of American transportation systems; rights and duties of carriers and shippers; the Interstate Commerce Commission Act and its interpretation in affording relief to shippers. The organization of traffic departments; duties of traffic managers; the relation of transportation problems to marketing.

Prerequisite: Economics 3 and Commerce 10.

Second semester. Three hours. Given in 1923-24 and alternate years.

13, 14 Law and Business

Law as a factor in business problems. Engaging in business, licensing, regulation, unfair competition, relation of state to business. Contracts with special reference to the relation of buyer and seller; enforcement of contracts, emphasizing the relation of debtor and creditor; credit safeguards and devices; agency, personal property, negotiable paper; and partnerships and corporation.

Prerequisite: junior or senior standing or consent of instructor.

First and second semesters. Four hours. Given in 1924-25, and alternate years.

Production Management

Problems of Industry

See Economics 9, page 58 for description.

21 Employment Management

Survey problems of the employment management of industrial enterprise, with emphasis on how to get men to work together effectively. Among the specific topics treated are: labor turnover, absenteeism, withheld effort, personal incapacities, disharmonies between management and worker; proper methods of selection, promotion and discharge, apprenticeship and foremanship training, wages and rewards; organization and functioning of the personnel department, and its place in the business organization.

First semester. Three hours. Given in 1924-25, and alternate years.

22 The Executive's Administration of Production

A consideration of the means of production; functional organization; control of conditions affecting production; survey of the control of operation, planning, purchasing, dispatching; development of standard methods of operation; incentives to regular and sustained production. The theory of each topic is illustrated by typical cases from actual business experience.

Prerequisite: Economics 3, and consent of instructor.

Second semester. Three hours. Given in 1924-25, and alternate years.

Marketing and Administration

31 Salesmanship and Sales Administration

The principles underlying the practice of salesmanship are considered from the viewpoint of the salesman, the buyer, and the sales manager. A critical review of the present day systems of human nature study in relation to a better understanding of the buyer; problems of sales administration and promotion.

Prerequisite: Commerce 10.

First semester. Three hours. Given in 1923-24, and alternate years.

32 Business Communication

A general survey of the communicating activities of business, supplemented by an intensive training in the writing and dictating of business letters and discussions of the problems of management connected with correspondence; analysis of effective thought and expression; the graphic, psychological, rhetorical and typographical aspects of business communication.

Prerequisite: English 1, 2, and Commerce 10.

Second semester. Three hours. Given in 1923-24 and alternate years.

34 Advertising and Advertising Campaigns

Especially designed to provide a general grasp of advertising for the executive. The psychology, theory, technique and practice of advertising and advertising campaigns.

Prerequisite: Commerce 10.

Second semester. Three hours. Given in 1923-24, and alternate years.

The Psychology of Advertising and Selling

See Psychology 4, page 65 for description.

35 Foreign Trade Methods

Organization and activities of export merchants, export commission houses, manufacturers, export agents, foreign agencies and foreign middlemen, export departments, co-operative exporting, export salesmen and branch house; foreign trade correspondence, advertising, and the cable; the export order; financial statement and credit; trade promotion by government and private agencies; import methods.

First semester. Three hours. Given in 1923-24, and alternate years.

ECONOMICS

PROFESSOR THOMPSON, PROFESSOR FORSBERG

The courses in economics are planned to acquaint the student with the principles underlying the social and economic problems of the day. They include a survey of the movements of labor and capital taking place at the present time, a study of the influence of economic conditions on social progress and a review of economic history. They furnish an economic background for a successful career in business, social work, government service, economics teaching and civic endeavor.

In view of the increasing participation of women in business, philanthropy and politics, made conspicuous by the final grant of nation-wide suffrage, a special effort is made to meet the needs of those interested in this phase of the subject.

Thirty credits are required for a major in economics. The course chosen must include Economics 3, 4, 5 and either 6 or 8, and may include any other economic courses, Commerce 11, 12, 35, 1c, 2c, and History 5c, 6c, Sociology 1, 2, Home Economics 3, 8, and a thesis.

A thesis, for which from four to six credits are allowed, must be submitted by candidates for the degree of Bachelor of Arts. The thesis subject should be selected in the junior year.

1 Industrial History of the United States

The importance of the economic factor in human progress; economic stages from prehistoric to modern times; economic history of the United States; recent tendencies in economic development.

Open to all students.

First semester. Three hours. Given in 1923-24, and alternate years.

2 Economic and Commercial Geography

A course designed as a part of a liberal education, giving a clear notion of the relation between environment and economic effort. The influence of geography on production and trade, and its effect in important countries on farm, forest, mine and factory.

Second semester. Three hours. Given in 1924-25, and alternate years.

3, 4 Principles of Economics

The nature and scope of economics; principles and problems of consumption, production, exchange and distribution; labor problems, movements and legislation; present tendencies in economic development. A general course laying foundations for business, social service, and citizenship.

Open to sophomores. Prerequisite for all courses except 1, 2, 11, 15, 16 and 17.

First and second semesters. Four hours.

5 Money and Banking

History of money, banking, and the mechanism of exchange in the United States and foreign countries, including the national bank, federal reserve and farm loan systems, international banking.

First semester. Three hours.

6 Public Finance

The budget system contrasted with other methods of public expenditure and taxation; federal, local and state taxes; debt and expenditures; problems and original studies.

Second semester. Three hours. Given in 1923-24, and alternate years.

Statistics

See Commerce 6a, page 53.

8 Population and Immigration

Malthus' laws of population and their consequences in economic, political and social theory; detailed survey of immigration to the United States; general survey of human mass movements.

Second semester. Three hours. Given in 1924-25, and alternate years.

9 Problems of Industry

A brief account of the types, methods and policies of labor organizations as introductory to the subject; the progress of collective bargaining and trade agreements; recent efforts to secure an increased participation of labor in industrial management and to develop friendly relations between employers and employees; the philosophy and history of legislation relating to employment in industry.

Prerequisite: Economics 3.

First semester. Three hours. Given in 1923-24, and alternate years.

11 Social Psychology

The mental side of group life and its effects in the domain of economics, politics, and education; mob psychology and its effect on deliberative bodies; formation and effects of castes, classes and sects.

First semester. Three hours. Given in 1923-24, and alternate years.

15 Social Origins

The origin of tribes, states, nations and social groups; formation of social and moral systems; origins of social, political and religious institutions, past and present; application of principles to practical life. Lectures and topical work.

First semester. Three hours. Given in 1924-25, and alternate years.

16 Charities and Corrections

Economic and social effects of poverty, crime, intemperance, and other maladjustments; attempts at cure; causes and results; economic and social losses and gains during the process; relation to state, church and school. Lectures and field work.

Second semester. Three hours. Given in 1924-25, and alternate years.

17 Rural Community Life

Present organization of American and selected foreign country life; improvement of economic and social farm conditions; relation of economic conditions to church and society.

First semester. Three hours. Given in 1924-25, and alternate years.

18 Agricultural Economics

Business life of the country-side and the food-production business; problems of marketing, distribution, and credit.

Second semester. Three hours. Given in 1922-23, and alternate years.

19 History of Economic Thought

The development of economic ideas in ancient times; the physiocrats and the classical economists; criticisms of the classical school from social and national viewpoints; historical and sociological developments; present-day thought.

First semester. Three hours. Given in 1923-24, and alternate years.

20 Advanced Economic Theory

A study of more detailed and comprehensive developments and applications of economic theory. Detailed applications of general principles; conflict and reconciliation of theories; points of agreement and conflict between different schools of thought and practice. Lectures and special investigations.

Second semester. Three hours. Given 1923-24, and alternate years.

22 Foreign Exchange and the Money Market

This is a study of the principles, theory and modern practice in the settlement of financial obligations between nations. Besides, the nature of the foreign exchange market is studied in relation to our foreign trade and in relation to our banking system under the new Federal Reserve Act. Text book, reports and lectures.

Prerequisites: Economics 3, 4, 5.

Second semester. Three hours.

23 Advanced Banking I

An advanced course in finance. During the first semester a careful study of modern bank credit will be made. The course, developed from the standpoint of bank officers, will present: first, the extent to which loans can be made, the basis of loaning power in line with conservative banking; second, a searching study of the security for, and safety of, bank loans to customers.

Prerequisite: Economics 3.

First semester. Two hours.

24 Advanced Banking II

An advanced course in international banking. The purpose of this course is to acquaint the student with some of the existing financial and economic problems from the basis of the present European trouble. Careful study is made of monetary and banking systems of the principal countries; the relation of our Federal Reserve System to international finance; and the significance, basis and methods of international credit. Some of the special problems considered will be: gold movements; discount market; the United States—a creditor nation; allied debts.

Second semester. Two hours.

EDUCATION AND PSYCHOLOGY

PROFESSOR RICHARDSON, ASSOCIATE PROFESSOR BANTING

The courses in this department are designed for the following students:

1. For those who wish a general knowledge of human nature, the laws of mental life and behavior.
2. For those who wish to know the applications of psychology to business life.
3. For those who need the requisite professional training for teachers.
4. For those who wish to specialize in education with the idea of looking forward to further study in graduate schools or the work of school supervision.

A major in education will vary in the specific courses offered, depending on what the students expect to do. The courses will be planned with each student. A total of 24 hours is required for a major, three of which shall be general psychology. The major work in education is expected to prepare for graduate study in education, for conduct of normal training in high school, and for educational supervision.

Requirements for State Certification

A minimum of 15 hours in education and psychology, taken in the sophomore, junior and senior years is planned, to meet the needs of state certification. Courses required are as follows:

- | | |
|---|---------|
| 1. General Psychology | 3 hours |
| 2. Educational Psychology | 3 hours |
| 3. Principles of Secondary Education | 3 hours |
| 4. Methods of Teaching in High School | 2 hours |
| 5. Observation and Practice Teaching | 2 hours |
| 6. Teachers' course in some one or more
high school subjects | 2 hours |

A committee on appointments will aid students in securing positions commensurate with their ability.

Education

3 Principles of Secondary Education

This course includes the following topics:

1. A study of the mental and physical traits of high school pupils. 2. The high school population, including retardation and elimination. 3. Comparison of the secondary school system in America with that of European countries. 4. Relation of secondary education to elementary education and higher education. 5. Social interpretation of education in a democracy. 6. Valuation of aims and purposes of the high school curriculum, program of studies and various high school subjects on the basis of our social needs. 7. Phases of organization of junior and senior high schools.

First semester. Three hours.

4 History of Education

This is a course in the general history of education. Its purpose is to acquaint the student with the varying practices and aims of education as they have been associated with the varying social, economic, political and religious conditions of people in the past, in order that he may understand our present-day needs of education. With this point of view education among the Greeks and Romans, educational influences dur-

ing the Middle Ages and the readjustments brought about by the Revival of Learning, the Reformation and our modern "Industrial Revolution" and social transformation are studied.

Second semester. Three hours.

5, 6 Administration and Supervision of Education

The purpose of this course is to present the fundamental problems of the organization and development of school systems; relation of the state to education; state, county, township and district organizations; powers and duties of superintendent, status of school boards, valuation of the curriculum and courses of study, relation of the school to the social needs of the community and the individual needs of child life; efficiency of school systems as indicated by the execution of the curriculum, holding power of the schools, age and grade variations of school children, promotion, retardation and elimination; school finances and reports; school expenditures and apportionment of school funds; selection and tenure of teachers.

First and second semesters. Two hours.

7, 8 Observation, Practice and Methods of Teaching

Plans have been perfected by Carroll College and the Waukesha Board of Education and City Superintendent of Schools whereby students of the college department of Education may do observation and practice teaching in the junior and senior high schools of the city. Teachers in training are required to observe or practice one period each day for one semester. Students will observe and practice one half semester each in two different subjects in which they are preparing to teach. In addition, two periods a week are devoted to a study of practical high school methods and management of the high school.

Given each semester by Professor Banting. Four hours.

9 Measurement of Intelligence

The aim of this course is twofold; (1) to train the student in the technique of measuring the intellectual capacity of school children, and (2) to interpret the educational problems growing out of the differences in the intelligence of children.

The following topics are followed in the course; differences in the intelligence of children and others; educational problems growing out of these differences; mental classification and distribution of school children; gifted children, their traits and educational problems; the normal or average child; the "dull" child, his traits and educational problems; defective children and their educational problems; relation of intelligence to elimination, quality of school work, social status, sex and environment; practice in the use of individual and group mental tests.

First semester. Three hours.

10 Educational Measurements and Tests

The aim of this course is fourfold; (1) to familiarize the student with the essential objectives of the various elementary and secondary school subjects, (2) to instruct the prospective teacher in the methods of measuring these objectives through standardized and informal tests, (3) to diagnose and interpret the results found in the measurement of educational products, (4) to remedy the situation revealed through the adaptation of instruction to the needs of the class and the individual. Students will study the nature of scales, the derivation of standards, statistical methods in the interpretation of scores, and will have practical experience in giving and scoring tests.

Second semester. Three hours.

11 Educational Sociology

The purpose of this course is to familiarize the student with our modern social organization and to show how our educational needs are determined by our social life. The direct educational function of the school is evaluated in connection with other social groups, the community, family, play group, the church and other intermediate social groups, and our modern state. Various social activities within the school in connection with discipline, recitation and the learning activities in general; social evaluation of the curriculum and courses of study.

First semester. Three hours.

Psychology

1 Introductory Psychology

This is a general introductory course in psychology in which the various mental processes are studied. It consists of lectures, discussions, and group experiments. The course is a prerequisite to other courses in the department.

First semester. Three hours.

2 Educational Psychology

The purpose of this course is to acquaint the student with the facts of mental life necessary for a better understanding of education and the learning activities of children. The three main topics covered are:

1. Original nature of man, racial instincts, inherited capacities, original satisfiers and annoyers, value and use of original tendencies.

2. Types of learning, including acquisition of habits and skill, acquisition of information, learning to express, learning to appreciate, and the acquisition of ideals; amounts, rate and limits of improvement, permanence of improvement and mental fatigue.

3. Individual differences in children and their causes.

Second semester. Three hours.

4 Psychology of Advertising and Selling

This course consists in the application of the laws and principles of mental life to business efficiency. The emphasis is laid on the mental processes involved in advertising and selling; the varying conditions for securing attention, holding attention through interest, arousing action, creating confidence and satisfaction; the memory, association, intellectual and feeling processes and, instinctive tendencies involved in business transactions.

Second semester. Three hours. Given in 1923-24, and alternate years.

12 Vocational and Industrial Psychology

A consideration of the psychological problems in connection with industrial activities; the management and selection of men; mental effects on men in various industries; mental traits, attitudes and capacities requisite for success in various occupations; psychology of co-operation and leadership in industry; individual differences in workers; psychology in its relation to vocational efficiency and mental tests of workers.

Second semester. Three hours. Given in 1923-24, and alternate years.

ENGLISH

PROFESSOR STARR, MR. SPRINGER

In the courses of the department of English the intention is to present literature as representing and interpreting life, as stimulating the finer sensibilities, as developing literary taste and appreciation, as promoting a wider culture and understanding of life. In the courses in composition the purpose is to promote the development of the power of clear and effective expression, to give training in the use of English as a means of expression and communication in the varied associations and objectives of life. In general there is a careful correlation of the study of literature and the work in composition.

For a major in English, thirty hours of work in the department are required. In this requirement must be included English 3, 4, English 11, 12 and English 5, 6, or English 7, 8. Dramatic Literature 13, 14 may be accepted for credit toward an English major. English 3, 4 should be taken in the sophomore year as a preliminary to more advanced courses in English Literature.

Composition

1, 2 Freshman English

A study of the forms of discourse; the preparation and criticism of written compositions; and prescribed readings in English and American prose, as embodying principles of effective expression. The object in all the work is to present just criti-

cal standards, to cultivate the sense of literary form, and to develop the power of clear and correct expression. In addition, some time is given to the history of the English language; to the study of words, their etymologies and meanings; and to the subject of bibliography and reference work in the library of the college under the direction of the librarian. Required course for freshmen.

First and second semesters. Three hours.

5, 6 Advanced Composition

A course, following English 1, 2, intended to develop further the practice of careful research and the power of clear and accurate presentation. It involves extensive reading of the best English and American prose, and leads to a variety of exercises, such as abstracts, reports, technical and historical papers, criticisms, personal essays, etc. The work of the course is related to the practical problems of expression and especially to the interest and need of those inclined toward journalism as a profession. Much of the material of the course is taken from the best current and periodical literature.

First and second semesters. Two or three hours. Given in 1924-25, and alternate years.

7, 8 English Prose

A study of the principles of expression based upon the work of the best prose writers, English and American. This course is designed to enlarge the student's acquaintance with the masterpieces of prose literature, to bring him into contact with the finer elements of style, and to promote the development and application of correct standards of criticism and expression. Current and periodical literature is used as a part of the material of this course. Constant writing is required. This course alternates with course 5, 6.

First and second semesters. Two or three hours. Given in 1923-24, and alternate years.

Language and Literature

3, 4 History of English Literature

A survey of the development of the English language and of the history of English literature, with study of individual

authors and representative works. Collateral reading and individual reports on assigned topics are required. The relation of the literature to the history of the country is emphasized throughout.

First and second semesters. Three hours.

9 Old English

Anglo-Saxon grammar and reader. Selections from Old English prose and poetry. The history of the English language, and the beginnings of English culture.

First semester. Three hours. Given on sufficient demand.

10 Middle English

A continuation of course 9. This course is devoted chiefly to the literature of the fourteenth century, with special attention to the works of Chaucer and Langland, the metrical romances, and the beginning of the drama. It includes the reading of Langland's *Piers Plowman*, Chaucer's *Canterbury Tales*, and some of the metrical romances of the time.

Second semester. Three hours. Given on sufficient demand

11, 12 American Literature

A study of American literature, both prose and poetry, with special emphasis upon its relation to American life and thought, and to contemporary English literature. Consideration of American periodical literature, including the newspaper, forms a part of this course.

First and second semesters. Three hours.

13, 14 The Essay

A study of the Essay as a work of creative art and as a definite literary form. Through the reading and study of the essayists of the eighteenth and nineteenth centuries, and of the work of recent and contemporary writers, the development of English prose style is traced. The Essay is considered in its relation to modern life, and in its various forms and uses, particularly in connection with literary criticism and periodical literature.

First and second semesters. Three hours. Given in 1923-24, and alternate years.

15, 16 Poetry of the Eighteenth and Nineteenth Centuries

Reading and study of the poetry of England in the eighteenth and nineteenth centuries with special attention to the classical period, to the romantic movement, and to the intellectual and spiritual movements of the later nineteenth century as revealed in the poetry of the time. The course includes some attention to recent poetry and to the subject of poetics.

First and second semesters. Three hours. Given in 1923-24, and alternate years.

The Drama

For courses in Shakespeare and the Drama, see department of Dramatic Literature, page 76.

17, 18 The Novel

A survey of the development of narrative literature, with critical study of the novel and short story as vital forms of modern literature. Extensive reading and analysis of selected works.

First and second semesters. Three hours. Given in 1924-25, and alternate years.

19, 20 Contemporary Literature

Reading, lectures, and reports in connection with the most important works in the literature of the day, including the magazines and other forms of periodical literature. This course may be given in combination with other courses.

First and second semesters. One or two hours. Given occasionally.

21, 22 Victorian Literature

A study of the literature of the later nineteenth century with intensive application to the great writers of the time as interpreters of the social, intellectual, and spiritual movements and forces of the time.

First and second semesters. Three hours. Given in 1924-25, and alternate years.

23, 24 Teachers' Course

A consideration of materials and methods of English instruction in the preparatory school.

First or second semester. One hour.

FRENCH

See Department of Romance Languages, page 89.

GERMAN

PROFESSOR KINGSBURY

Courses in German are offered because of the value of German in connection with the study and pursuit of commerce and science, and as affording an approach to the wealth of German literature, particularly of its poetry and philosophy.

1, 2 Elementary German

A beginning book is studied, emphasizing the essentials of German Grammar. This is followed by the reading of several short texts.

First and second semesters. Four hours.

3, 4 Intermediate German

Reading of selected masterpieces of German literature, such as Schiller's *Jungfrau*, Lessing's *Minna von Barnhelm*, Freytag's *Die Journalisten*.

First and second semesters. Three hours.

5, 6 Advanced German

Lessing's *Nathan der Weise*; Goethe's *Faust*; Keller's *Bilder aus der deutschen Litteratur*.

German 5, 6 is given in alternate years with German 7, 8.

First and second semesters. Two hours.

7, 8 Scientific German

The chief aim of this course is to familiarize the student with the vocabulary in common use in works on scientific subjects.

German 7, 8 is given in alternate years with German 5, 6.
First and second semesters. Two hours.

GREEK

See Department of Classical Languages, page 50.

HISTORY AND POLITICAL SCIENCE

PROFESSOR TAYLOR

In offering the following courses the Department of History and Political Science has in view the various interests and needs of students pursuing general culture or commercial courses, and of those expecting to teach in high schools or to continue in graduate work as a preparation for more advanced teaching and research positions. Hence special attention is given to the materials and methods of historical study. While due attention is given to political history, the aim of the department is so to acquaint the student with social customs and conditions, industrial pursuits, and religious and cultural institutions, to give such a knowledge of vital conditions and elements in the growth of the leading countries of the world as may lead to a better understanding of our present civilization.

For a major in this department thirty hours of work in History and Political Science are required.

History

1, 2 General History of Europe

A study of the history of Europe from the decline of the Roman Empire to 1815. The course is a study of the progress in civilization, the development of the political, economic and social life of the people, and the rise of modern nations.

First and second semesters. Three hours.

5c, 6c Economic History of England

Development of modern finance, commerce, agriculture and industry from mediaeval beginnings to present-day world scope. Special attention is paid to the manor system, the gild, domestic industry, mercantilism, the conquest of markets, free trade, and the development of world-capitalism.

Open to all students. Required of commerce freshmen.

First and second semesters. Three hours.

5, 6 History of England

In this course topical study is made of the Anglo-Saxon period; Norman and Angevin kings; beginnings of the English Nation; Tudors; Stuarts; expansion into Empire; squirearchy; making of England; British Commonwealth of Nations.

First and second semesters. Three hours.

3, 4 American History

A survey of the history of America from time of settlement to 1890. Special attention is given to constitutional and political growth.

First and second semesters. Three hours.

7, 8 Recent History of the United States

Economic and social results of the Civil War; parties and party issues; agrarian crusade; third party attempts; imperialism; big business; the public and its concept of service. These are a few suggested topics that are studied in the course.

First and second semesters. Two hours. Given in 1923-24, and alternate years.

9, 10 Europe since 1815

A course presenting such topics as Europe reconstructed; period of reaction and the resultant revolutions; unification of Italy; unification of Germany; survey studies of England, British Empire, Spain, Austria-Hungary, Russia, the Balkans, Turkey, and others of the countries of Europe. The course extends to the opening of the Great War.

First and second semesters. Two hours. Given in 1924-25, and alternate years.

13, 14 Historical Method and the Teaching of History

For students majoring in history who expect to continue their study in graduate schools. The course consists of first steps in obtaining material and general research activity. The second part of the course deals with problems of teach-

ing, the recitation, presentation of subject matter, use of maps and notebooks, etc. The student is engaged in practice teaching at the time of discussions.

First and second semesters. One hour.

Political Science

1 Elements of Political Science

A study of the theory, origin, sovereignty and form of the state; of the separation of powers; the legislature, the executive, the judiciary; of federal, colonial, local and party governments.

First semester. Three hours.

2 National Government of the United States

A study of the historical background of the constitution and of constitutional principles; political parties; the presidency; congress; judiciary; the government of territories.

Second semester. Three hours.

HOME ECONOMICS

MRS. SPRINGER

The courses offered in this department are planned as a part of a liberal education, to give a general insight into the problems of the home and the place of the household in society.

1 House Construction

The history of domestic architecture; designs and choice of dwellings, location, construction, water supply, heating and lighting. Drawing of plans.

First semester. Two hours.

2 House Furnishing

The principles of interior decoration as applied to floors, walls, and ceilings; carpets, draperies, and furnishings for their artistic and economic value.

Second semester. Two hours.

3 Household Economics

The organization of the household, its relation to the community, standards of living, budget studies, division of income, household accounts and systematic methods of housekeeping.

First semester. Two hours.

4 Home and Community Hygiene

The house as a factor in health. The relation between the individual, the home, and the community regarding sanitation and public health problems.

Second semester. Two hours.

5 Food and Nutrition; Elementary Dietetics

The selection of food; its value in the diet; marketing; the planning and preparation of meals. This course is planned to give a practical knowledge of nutrition and presupposes credit in high school cookery.

Prerequisite: Chemistry 1.

First semester. Three hours.

6 Clothing

Planning the family clothing budget; consideration of the purchasing of materials and garments from the standpoint of economy of time and money; conditions in the clothing industry. Designing and making of simple dresses or other clothing in which practice is desired. This course presupposes credit in high school sewing.

Second semester. Three hours.

8 The Social and Economic Position of Women

Laws and customs regulating property rights, marriage, and group activities. Opportunities in modern life.

This course may receive credit toward a major in Economics.

Second semester. Two hours.

LATIN

See Department of Classical Languages, page 49.

LIBRARY METHODS

MISS BIBBY

1, 2 Library Methods

This course is especially designed to enable those who are preparing for teaching to organize school libraries and to direct reference work. In addition to a systematic study of the resources of a library, particular attention is given to methods of classification, cataloguing, and general library administration. The course is open to juniors and seniors and may be given in connection with one or more of the courses in Education.

First and second semesters. Two hours.

LITERARY INTERPRETATION AND DRAMATIC
LITERATURE

PROFESSOR RANKIN

The purpose of this department is to develop the power of interpreting literature for personal pleasure, for public presentation, or for teaching English or public speaking.

The method of instruction is founded upon psychological laws and develops the sources of power through natural expression. It involves culture of the broadest kind, requiring intellectual concentration, aesthetic appreciation, and power to control an audience.

Literary Interpretation

5, 6 Platform Art

Story telling: interpretation of literature; repertoire.
Text: *Evolution of Expression*, Charles W. Emerson.

First and second semesters. Three hours.

7, 8 Normal Course in Literary Interpretation and Public Speaking

Study of high school problems. Practice in teaching story telling; literary interpretation; extemporaneous speaking; debate, repertoire; staging of plays; physical culture; voice culture.

First and second semesters. Three hours.

9 Dramatic Art

Shakespeare: Intensive study of two plays, with dramatic presentation of scenes. *Hamlet, Midsummer Night's Dream, Hudson Edition*. Barrett Clark: *How to Produce Amateur Plays*.

First semester. Three hours.

10 Dramatic Art

Modern Drama: The One Act Play. Study of the Little Theatre Movement.

Second semester. Three hours.

11, 12 Voice Training

Exercises for freeing and enriching the voice.

Credit is not given for this course.

First and second semesters. One hour.

Dramatic Literature

13, 14 Shakespeare

History of the classic drama and of English drama from the beginning to 1642 when the theatres were closed. Reading of all of Shakespeare's plays. Intensive study of the dramatic art and ethical problems of two tragedies, two comedies and two historical plays. Texts: *Introduction to Shakespeare*, McCracken, Pierce and Durham; Oxford edition of Shakespeare, one volume. Collateral reading: *Development of the Drama*, Brander Matthews; *Play Making*, William Archer.

First and second semesters. Three hours. Given in 1923-24, and alternate years.

15, 16 Modern Drama

Continental Drama: Scandinavian, Belgian, French, German, Russian, Spanish drama. Ibsen, Bjornson, Strindberg, Maeterlinck, Sardou, Scribe, Augier, Rostand, Brieux, Hervieu, Hauptmann, Sudermann, Tchekhov, Echegaray. Texts: *Continental Drama of To-Day*, Barrett Clark; *Chief Contemporary Dramatists*, Dickenson.

British and American Drama: Jones, Pinero, Baker, Wilde, Galsworthy, Phillips, Parker, Shaw, Masefield, Barrie, Francis, Yeats, Synge, Lady Gregory, Lord Dunsany, Howard, Gillette Fitch, Thomas, Moody, Belasco, Mackaye, Sheldon, Crothers. Texts: *British and American Drama of Today*, Barrett Clark, Collateral reading: *Dramatic Technique*, George P. Baker.

First and second semesters. Three hours. Given in 1924-25, and alternate years.

To college students wishing to specialize in Literary Interpretation a two-year professional course is offered to be completed not earlier than the end of the junior year. It is possible to secure at the end of four years, the degree of B.A., and also a certificate of graduation from the Department of Literary Interpretation. Twenty-five private lessons are required of candidates for graduation and for these a special fee of fifty dollars is charged. Each candidate for graduation presents publicly the dramatic interpretation of a play. Graduates who return for an additional year of work in the department receive the degree of Bachelor of Literary Interpretation.

The following courses are required for graduation in Literary Interpretation:

Required Freshmen courses.....	30 hours
5, 6 Platform Art	6 hours
7, 8 Normal Course	6 hours
9, 10 Dramatic Art	6 hours
11, 12 Voice Training	
13, 14 Shakespeare	6 hours
15, 16 Modern Drama	6 hours
Public Speaking, 1, 2.....	6 hours
English 3, 4.....	6 hours
Psychology 1, 2.....	6 hours
Electives	14 hours

Two plays are given during the year under the direction of the department. Students may be secured as readers by application to the head of the department.

MATHEMATICS

PROFESSOR DANCEY, MR. FRIES

The courses in mathematics are arranged for students who wish to major in the subject, for those preparing for technical training and for those who wish some knowledge of college mathematics as a part of a general course.

Students majoring in mathematics are required to take courses 1a and 2a or their equivalent, courses 5 and 6, 7 and 8 and one additional course in advanced mathematics. Mathematics 16 may be taken either in the junior or senior year and is required of those preparing to teach. Students not majoring in mathematics, but wishing to teach, are expected to include differential and integral calculus in their courses.

1, 2 Freshman Mathematics

For students presenting 1 unit of algebra for entrance.

This is a unified course co-ordinating advanced algebra, trigonometry, and analytic geometry, and including a review of elementary algebra. This course, combined with course 3, will prepare for the calculus.

First and second semesters. Three hours.

1a, 2a Freshman Mathematics

For students presenting $1\frac{1}{2}$ units of algebra for entrance. A year course co-ordinating material from algebra, trigonometry and analytic geometry and leading up to the study of calculus. The usual mathematics requirement of the college may be satisfied by the first semester of this course by those presenting for entrance $1\frac{1}{2}$ units of algebra.

First and second semesters. Five hours.

3 Advanced Unified Mathematics

For students who have completed Mathematics 1 and 2.

This course is a continuation of mathematics 1 and 2, culminating in an introduction to the calculus.

First semester. Three hours.

4 Commercial Algebra and Mathematical Theory of Investment

For students in the course in Commerce. A practical course dealing with the relation of interest to the amortization of debts, to the creation of sinking funds, to the treatment of depreciation, to the valuation of bonds, to the accumulation of funds in Building and Loan Associations, and to the elements of life insurance.

Prerequisite: Mathematics 1.

Second semester. Three hours.

5, 6 Differential and Integral Calculus

A year course in the Calculus. Differentiation and Integration are co-ordinated and emphasis is placed upon their numerous applications. The more advanced part of the course includes a study of the theory of the definite integral and the elements of differential equations.

Prerequisite: Mathematics 3, or equivalent.

First and second semesters. Four hours.

7 Theory of Equations and Determinants

This course is a study of the roots of various types of equations, graphical analysis, complex numbers, symmetric functions, elimination, and determinants.

Prerequisite: Mathematics 5.

First semester. Three hours.

8 Differential Equations

The integration of the various classes of differential equations with applications to problems in geometry and the physical sciences.

Prerequisite: Mathematics: 5, 6.

Second semester. Three hours.

9 Advanced Mathematics

This course will be selected according to the particular needs of advanced students, from the following courses: Solid Analytic Geometry, Theory of Functions, Advanced Mechanics.

First semester. Three hours.

10 Descriptive Geometry

Problems relating to point, line and plane, lines and surfaces, tangent planes, intersections, developments, shades and shadows. The course requires four hours in the drawing room and two recitations per week. Text: Miller's *Descriptive Geometry*.

Second semester. Three hours.

11, 12 Mechanical Drawing

This course presents the elements of machine drafting. Instruction is given in the use of instruments, lettering, sketching machine parts, working drawings, tracing, and blue-printing. Students are required to provide themselves with instruments of good quality. Text book: *Mechanical Drawing*, Phillips and Orth.

First and second semesters. Three hours.

13, 14 Surveying

Lectures, recitations, field and office work in the theory, care, use and adjustments of instruments, in the platting of areas and profiles, and in the making of topographic maps. The field work includes the use of the chain and tape, determination of areas with tape and transit, differential and profile levelling, running of lines and traverses, triangulation, use of the plane table, observation on the sun and Polaris, and the use of the stadia.

First and second semesters. Three hours.

15 Theory and Computations of Surveying

A course intended for students who wish to become acquainted with this particular field of applied mathematics but who are unable to do the field work of the regular surveying course.

Prerequisite: Mathematics 1 and 2.

First semester. Three hours.

16 The History and Teaching of Mathematics

This course is a study of the literature relating to the teaching of mathematics in secondary schools. The course

includes a study of some fundamental concepts and a review of the history of Mathematics.

Prerequisite: Mathematics 5 and 6.

Second semester. Three hours.

MUSIC

PROFESSOR SHEPARD, PROFESSOR BAAS, MISS LAU

Students in the college have an opportunity of electing certain work in music which has recognized cultural and scholarly value.

A maximum credit of twenty hours in Theory, History of Music, Appreciation of Music, and advanced applied music may be allowed toward the degree of Bachelor of Arts.

A further presentation of the work in music may be found under the statement of the School of Music on page 99.

1a, 2a Harmony

Elementary course. Music notation, knowledge and use of the various clefs, the principle of transposition; keys, scales, signatures, intervals, triads and their inversions, chords of the seventh, and harmonization of melodies and figured basses.

First and second semesters. Two hours.

1b, 2b Keyboard Harmony

The practical application of the work in Harmony 1a, 2a. The playing of scales, chords, chord progressions, modulation, and the harmonization of melodies and figured basses, and transposition at the piano.

First and second semesters. One hour.

1c, 2c Ear-Training and Solfeggio

A course correlated with the course in Harmony 1a, 2a. The dictation and singing of scales, intervals, chords, chord progressions and modulation.

First and second semesters. Two hours.

3a, 4a Harmony

Advanced course. Study of chord relationships, and progressions, modulation, altered chords, enharmonic changes, suspension, ornamental tones, organ point, melodic figuration and accompaniment. The work is done through the harmonization of melodies and figured basses.

First and second semesters. Two hours.

3b, 4b Keyboard Harmony

Continuation of Course 1b, 2b.

First and second semesters. One hour.

3c, 4c Ear-Training and Solfeggio

Continuation of course 1c, 2c.

First and second semesters. One hour.

5, 6 Counterpoint and Advanced Harmony

Supplying two, three, or more additional voices in the five orders of counterpoint to choral melodies and other cantl firmi.

First and second semesters. Two hours.

7, 8 Counterpoint; Canon and Fugue

Double counterpoint in three, four, or more parts. The study and writing of canons in the various intervals, and of figures in three and four voices, with careful study of the works of Bach and other contrapuntal masters.

First and second semesters. Two hours.

9, 10 Composition

Practice in the homophonic forms of composition. Phrase and period formation, song forms, dance forms, conventional styles of composition, and the sonata form.

First and second semesters. Two hours.

11, 12 Practical Musicianship

A course designed to enable students of music to make their theoretical knowledge directly applicable to the interpretation of music.

First and second semesters. One hour.

13, 14 History of Music

A general survey of musical history from its crudest to its most perfect forms, with illustrations and lectures.

First and second semesters. One hour.

15, 16 Harmonic Analysis

Analysis in detail of the harmonic and contrapuntal structure of examples from the composition of classical and modern composers.

First and second semesters. Two hours.

17, 18 Musical Forms and Analysis

A study of the development of vocal and instrumental music and the analysis of its construction from the simple phrase to the more complex forms such as the sonata and symphony, with illustrations from classical and modern composers.

First and second semesters. Two hours.

19, 20 Musical Forms and Analysis

A continuation of course 17, 18 with complete analysis of the greater compositions—Mozart, Beethoven, Mendelssohn, and of the fugues of Bach.

First and second semesters. Two hours.

21, 22 Musical Appreciation

Lectures on the growth and development of music and its relation to the other arts and literature. The analysis of music forms and a general survey of musical literature with illustrations, vocal and instrumental. This course requires no previous knowledge of music and is open to students in all departments of the college.

First and second semesters. One hour.

23, 24 Ensemble Playing and Singing

First and second semesters. One hour.

25, 26 Public School Music

First and second semesters. Two hours.

27, 28 Public School Music

First and second semesters. Two hours.

29, 30 Normal Methods in Piano

First and second semesters. Two hours.

31, 32 Normal Methods in Voice

First and second semesters. Two hours.

PHILOSOPHY

PROFESSOR ROGERS

The work in this department is designed to familiarize the student with the more fundamental lines of philosophic thought and to enable him to think consistently and independently on the ultimate problems of reality, the physical world, and the human self, and to entertain clear ideas of the relations of these problems to his own life and conduct. To this end the courses in history of philosophy, logic, and psychology have been planned to meet the needs of those students who may elect the work for general culture and discipline, and also for those students who may wish to pursue the work with a special interest in philosophy or education.

In addition to its own intrinsic value, the work in Philosophy has added value to the student in that it may serve to indicate in a measure the relations and correlations of the work of other departments and thereby to render them collectively more helpful.

1 Logic

This course considers deductive and inductive logic with a criticism of various theories of knowledge. Special attention is directed to the analysis of logical arguments and to the detection of fallacies in reasoning. Logic is shown to be an instrument in the formation of new ideas and new knowledge through contact with the world of experience.

First semester. Three hours.

2 Ethics

A historical and critical study of ethical theories, the psychology of ethics and the relation of ethics to religion. This is a descriptive and genetic consideration of moral ideas and

practices in different civilizations at various stages of their development and their relation to present social problems.

Second semester. Three hours.

3, 4 History of Philosophy

Ancient, mediaeval and modern philosophy. A review of the development of philosophical thought from the early Greeks and Orientals to the present. The different philosophical systems are presented in their relation to the civilization of which they are a part and an estimate is made of their social, political, and religious significance.

First and second semesters. Three hours.

5, 6 Philosophy

General introduction, philosophical problems, and recent tendencies. A study of the deeper permanent problems of nature, mind and life, with some solutions of them taken from ancient and modern systems. A critical comparison is made of materialism, idealism, and pragmatism.

First and second semesters. Three hours.

7, 8 Religion

The history, comparison, and philosophy of religions. A study of the origin and growth of religion; a comparison of the great systems in their doctrines of God and man, of worship and service, of death and immortality; and an endeavor to find the ultimate meaning of man's religious nature.

First and second semesters. Three hours.

9, 10 Christian Theism

A study of the arguments for belief in the being, nature, and attributes of God, and for faith in the fact and trustworthiness of His self-revelation; with a criticism of some anti-theistic theories.

First and second semesters. Three hours.

PHYSICS

It is the aim of the department of Physics to present courses which will furnish preparation for technical work, for teaching, or for advanced scientific study. Physics relates itself in such a way to other sciences and to mathematics as to make it a very desirable course for the student who expects to pursue the study of either science, mathematics, or engineering. From the cultural standpoint physics should be of interest to any one who wishes to acquaint himself with the laws of nature. Recent advances in the sciences make the understanding of underlying principles especially desirable.

1, 2 General Physics

A comprehensive outline of the principles of physics treating the general subjects of mechanics, heat, sound, electricity, magnetism, light, and the history and progress of physics. Theory and experiment are carefully correlated in classroom and laboratory to the end that the student may gain a thorough grasp of physical principles. Text Book: Ferry: *General Physics*.

Prerequisite: College Algebra and Trigonometry. Open to sophomores.

First and second semesters. Four hours.

1a, 2a.

This course is of the same general content as courses 1 and 2, but with additional problem work and laboratory exercises. The course is arranged for students preparing for engineering.

First and second semesters. Five hours.

3 Mechanics, Molecular Physics and Heat

Three class room periods and a minimum of four hours of laboratory work per week. Text book: *Mechanics, Molecular Physics and Heat*, Millikan.

Prerequisite: course 1.

First semester. Four hours.

Courses 2 and 3 are based upon fifty-one experiments in the subjects named. Each subject treated theoretically has its application in an experiment performed in the laboratory. Especially designed apparatus makes possible accurate quantitative results. The aim is to acquaint the student with methods and instruments of modern physical investigation and to give him a comprehensive grasp of the analytical theory involved. Students preparing to teach either science or mathematics, to follow engineering or chemistry, or to pursue advanced physics should elect these courses.

4 Electricity, Magnetism, Sound and Light

Three class room periods and a minimum of four hours of laboratory work per week. Text-book: *Electricity, Sound and Light*, Millikan and Mills.

Prerequisite: Physics 1, 2.

Second semester. Four hours.

5, 6 Electricity, Magnetism and Electrical Testing

The course is arranged for students of physics and electrical engineering. The theoretical discussions are accompanied by precise measurements of resistance, electromotive force, current, capacity and inductance and practical electrical testing covering the operation of dynamos, motors and transformers. Text-book: *Electricity and Magnetism*, Starling. Experiments are taken from standard manuals.

Prerequisite: Physics 4 and Calculus.

First and second semesters. Three hours.

7 Light

A study of geometrical and physical optics based upon Edser's *Light for Students*. The course deals with the laws of reflection and refraction as illustrated in the more important optical instruments and with the development of the wave theory of light. The laboratory work includes accurate measurements in interference, dispersion, diffraction and polarization.

Prerequisite: Physics 4.

First semester. Three hours.

8 Heat

A study of molecular physics, calorimetry, thermodynamics, radiation and pyrometry, accompanied by accurate laboratory measurements. Text-book: Edser's *Heat for Advanced Students*.

Prerequisite: Physics 4.

Second semester. Three hours.

9 Recent Advances in Physics

A review of recent developments in the physical sciences dealing with radioactivity, X-rays, photo-electricity, electron theory and wireless telegraphy.

Prerequisite: Physics 5, 6 and Calculus.

First semester. Three hours.

10 Theoretical Mechanics

An advanced theoretical discussion covering the principles of statics and dynamics. The theory is accompanied by numerous practical problems chosen largely from the field of engineering. The course is fundamental to the study of engineering, theoretical physics or celestial mechanics.

Prerequisite: Mathematics 7 and Physics 1, 2.

Second semester. Three hours.

PSYCHOLOGY

See Department of Education and Psychology, page 65.

PUBLIC SPEAKING

MR. SPRINGER

The department of Public Speaking, reorganized for next year, will offer work in argumentation, debate, and oratory, helpful to those who are planning for careers which involve public and oral presentation of truth and principle.

1,2 Orations and Debate

Study of the oration as a literary type; different forms of public address; analysis of famous speeches; original composition, revision, and training for public utterance. Analysis of a proposition for debate; brief-drawing, evidence, forms of

argument, refutation, and the psychology of persuasion. Foster: *Argumentation and Debating* revised edition. Required for all intercollegiate orators and debaters. Elective for others.

First and second semesters. Three hours.

5, 6 Seminar in Debate

Tryouts for intercollegiate debate will occur the first week in November. After that date the intercollegiate debaters will substitute for course 1 and 2 course 5 and 6. The work will then be direct preparation for public debate.

ROMANCE LANGUAGES

PROFESSOR ROCKWOOD, PROFESSOR DEGELER

The aim of the elementary and intermediate French and Spanish courses is to acquaint the student with the language, to enable him to read and translate, and, to a certain extent, to write and converse. The advanced courses consist of the study of literature and require classroom translation and collateral reading.

Twenty-four hours of French, excluding the first year, are required for a major.

French

1, 2 Elementary French

Pronunciation. Elements of grammar, illustrated with oral and written exercises. Regular and most common irregular verbs. Reading and writing simple French. Practice in French conversation.

First and second semesters. Four hours.

3, 4 Intermediate French

Review and advanced French grammar. Irregular verbs. Reading of French prose with questions in French based on the text. Written and oral composition.

First and second semesters. Three or four hours.

5, 6 Nineteenth Century Prose

Translation of some of the works of the following authors: Daudet, Hugo, Maupassant, Mérimée, and George Sand. Class discussions. Collateral readings with written and oral reports.

First and second semesters. Three hours. Given in 1923-24, and alternate years.

7, 8 Eighteenth Century Literature

A study of Voltaire and Rousseau, including the relationship of their ideas to the French Revolution; Montesquieu, Buffon, and the Encyclopedists. Classroom translation. Supplementary reading. Class reports and discussions.

First and second semesters. Three hours. Given in 1924-25, and alternate years.

9, 10 Seventeenth Century Literature

French classicism. Tragedy, comedy and prose. Study of some of the works of Corneille, Molière, Racine, La Fontaine, Descartes, Pascal, Bossuet, La Bruyère and Madame de Sévigné. Collateral reading and reports.

First and second semesters. Three hours. Given in 1924-25, and alternate years.

11, 12 Sixteenth Century Literature

Study of some of the works of the following authors: Marot, Rabelais, Calvin, and Montaigne. Literary ideas during the French Renaissance.

First and second semesters. Three hours. Given in 1923-24, and alternate years.

15, 16 French Conversation and Phonetics

Open to students who have had Intermediate French 3, 4, or its equivalent.

Theory of the French sounds, with daily practice in pronunciation and conversation.

Conducted in French.

First and second semesters. Three hours.

Spanish

1, 2 Elementary Spanish

Elementary course in grammar, composition and reading. Regular and important irregular verbs. Oral and written translation. Dictation exercises. Practice in Spanish conversation.

First and second semesters. Four hours.

3, 4 Intermediate Spanish

Reading of Spanish prose with questions in Spanish based on the text. Composition. Review of irregular verbs.

First and second semesters. Three or four hours.

5, 6 Commercial Spanish

Reading of Spanish prose dealing with the people, history and products of Latin-American countries. Composition and conversation. Collateral reading and reports.

First and second semesters. Three hours.

SOCIOLOGY

PROFESSOR ROGERS

In this department a study is made of the general subject of sociology, together with a survey of the field of social relations, with the view of establishing principles and laws. The course of study offered aims to fit the student to make a personal study of social questions, to interpret modern social problems, and as far as possible to grapple with and understand the perplexing questions of our modern life, thus preparing him for an intelligent and responsible citizenship. The work of this department may be supplemented by certain courses given in the department of Economics.

11 General Sociology

A study of the nature and laws of human society, familiarizing the pupil with the principle forms of social organization; with the thoughts, the sympathies, the purposes, and the virtues that made society possible; with the benefits that society confers; and with the conduct that worthy membership of society requires.

First and second semesters. Three hours.

The School of Music

FACULTY

WILLIAM ARTHUR GANFIELD, D.D., L.L.D.

President of the College

CLARENCE E. SHEPARD

*Director of the School of Music, and
Professor of Piano, Organ and Theory*

ALEXIUS BAAS

Professor of Vocal Music

ERNA SELMA LAU, B. MUS.

Instructor in Piano and Theory

ELSA ROTH

Instructor in Piano

Instructor in Public School Music

FRANCES ESTBERG

Instructor in Piano

The object of the School of Music is to offer extensive courses in the practical and the theoretical study of all branches of the art and science of music, and to furnish instruction in such other subjects as may be considered necessary for the fullest development of the student's faculties, preparatory to the pursuit of music as a profession. It provides also for the study of music as an adjunct to general culture, or as an accomplishment.

Instruction is offered in piano, voice, organ, violin, and in history of music, harmony, counterpoint, composition, musical form and analysis, keyboard harmony, harmonic analysis, sol-feggio, ear-training, and methods in public school music. Special arrangements are made for students not wishing to take up the literary work required for the degree of Bachelor of Music, but desiring to devote themselves more especially to the study of music with little or no collateral work and with a view of graduation either in the teachers' course or graduation class. However, it is expected that boarding students will take some literary studies. Students taking advanced

work in music may be allowed twenty hours, twelve hours in theoretical music and eight in advanced applied music, towards the degree of Bachelor of Arts. No credit in practical music will be given until the student shall have completed two years' work in Theory, and no credit will be allowed for less than a years' work in Theory.

Advantages

The advantages of instruction in a school of music, over private instruction, are so manifold and varied and so obvious to the serious minded that merely to mention the most important will be sufficient. The faculty of the music department of a college is chosen with special reference to the fitness and ability of its members as teachers and artists. Theory and practice should be united in the successful study of music, and it is only a college with carefully chosen specialists in every department that can offer to the student the facilities necessary for securing a complete equipment as a musician and give him the necessary preparation for successful artistic work as teacher or virtuoso. Again, the atmosphere of a conservatory is in itself stimulating. The broadening and inspiring influence of a good college is inimical to the limited culture and narrow horizons to be avoided by music students of ambition and high ideals. A college cannot fail to create ambition and self-reliance among its students. By observation of the attainments of those who have acquired a higher degree of proficiency, the student is inspired to a greater effort, his forces are directed along right lines, and his perceptive and critical faculties are sharpened. Confidence and self-control are acquired by frequent performances before others, and the student is surrounded by influences helpful to the cultivation of a refined musical taste.

Recitals

Frequent recitals are given by members of the faculty and the students, the latter being thus enabled, not only to cultivate their musical taste by hearing the best music interpreted by competent artists, but also to develop to the fullest extent their own ability for public performance. The close proximity of Carroll College to Milwaukee gives to the students practically the advantages of living in a musical center.

Courses in Music

- I. A four-year course in Applied Music, Theory, and History of Music, with literary requirements leading to the degree of Bachelor of Music.
- II. A four-year course in Applied Music, Theory and History of Music, leading to a diploma from the School of Music.
- III. A three-year Normal Course in Piano Methods.
- IV. A three-year course in Vocal Methods.
- V. A two-year course in Public School Music.

A Teacher's Certificate is given at the completion of Courses III and IV and V.

Requirements for Degree of Bachelor of Music

The following course leads to the degree of Bachelor of Music:

Freshman Year

Applied Music (Piano, Voice, Organ, or Violin): Two private lessons (half-hour each) and not less than eighteen hours of practice per week.

Harmony, course 1a, 2a.

Ear-training and Solfeggio, course 1c, 2c.

Keyboard Harmony, course 1b, 2b.

History of Music, course 13, 14.

Literary Studies.

Sophomore Year

Applied Music: Two private lessons (half-hour each) and not less than eighteen hours of practice per week.

Harmony, course 3a, 4a.

Keyboard Harmony, course 3b, 4b.

Ear-training and Solfeggio, course 3c, 4c.

Musical Form and Analysis, course 17, 18.

Normal Methods, course 29, 30.

Literary Studies.

Junior Year

Applied Music: Two private lessons (half-hour each) and not less than eighteen hours of practice per week.

Counterpoint, course 5, 6.

Musical Form and Analysis, course 19, 20.

Harmonic Analysis, course 15, 16.
Practical Musicianship, course 11, 12.
Ensemble, course 23, 24.
Literary Studies.

Senior Year

Applied Music: Two private lessons (half-hour each) and not less than eighteen hours of practice per week.

Counterpoint, course 7, 8 or

Composition, course 9, 10.

Musical Appreciation, course 21, 22.

Ensemble, 23, 24.

Literary Studies.

In the above course the candidate for a degree must receive one-fourth of the total number of credits in literary studies required for the degree of Bachelor of Arts, that is, thirty-two.

Students finishing the course without the literary requirements will be granted a diploma from the School of Music.

Students finishing the junior year and taking the course in Normal Methods will be granted a Teacher's Certificate.

Candidates for a degree or diploma in voice must have at least two years of pianoforte study, but the Counterpoint 13, the Counterpoint 14, and the Composition 15, are not required and membership in the choral union or glee club may be substituted for the ensemble playing of the junior and senior years. One year of Italian and one year of French or German are required of vocal students for the degree of Bachelor of Music.

The course in violin is the same as in piano, except that orchestral rehearsals may be substituted in part for the ensemble work of the junior and senior years.

PIANO

MR. SHEPARD, MISS LAU

Careful attention is given to the playing of every conservatory pupil at whatever age he, or she, may enter the institution. The most approved and modern methods are sought out and utilized in developing the student's capabilities, talents and indi-

viduality. The utmost care is given to the development of a good touch, a sensitive ear, rhythmical accuracy and stability, and a proper understanding of musical phrasing and expression. The scientific principles underlying the technical methods of the modern pianist are fully explained and applied. While the standard classical composers are drawn upon for the greater part of the piano curriculum, the more modern romantic school is by no means neglected. The conservatory recognizes the fact that pianists of the present day should be versatile and many-sided in their artistic attainments, and to this end the piano course is planned from its most elementary stage. The method of instruction is based principally upon private lessons. The best results are obtained only by individual attention to the needs, and careful study of the artistic, mental, and physical capacity of each pupil.

During the sophomore year, students in the teacher's course will pursue the studies having a direct bearing on the best methods of imparting musical knowledge, and will survey in a general and systematic way the materials for musical education from the beginning to the attainment of a certain degree of proficiency. In order to make the instruction given in this department thoroughly practical, pupils of various grades are utilized, thus affording the normal students the greater advantage of doing actual teaching under the supervision of the experienced master.

Preparatory School

Hand culture and gymnastic exercises to secure muscular control of arm, wrist, and fingers. Foundation technical exercises based on the Leschetizky system for the cultivation of the touch and for the formation of the hand and preparation for the proper execution of scales, arpeggios, and octaves.

Etudes: Loeschhorn, Gurlitt, Herz, Kullak, Pischna, Krause.

Etudes: Op. 45 and 46, Heller.

Studies on Touch: Wieck.

Sonatinas: Clementi, Dussek, and Kuhlau.

Sonatas: Haydn and Mozart.

Classic and modern compositions.

Freshmen and Sophomore Years

Advanced technical studies, scales, arpeggios, broken chords, octaves.

Technical Studies: Pischna and Joseffy.

Studies in Velocity and *The Art of Finger Dexterity*: Czerny.

Two and Three-Voiced Inventions: Bach.

Octave Studies: Kullak.

Etudes: Cramer.

Sonatas and Pieces: Haydn, Mozart, Beethoven, Händel, Weber, Schubert, Schumann, Mendelssohn, Chopin; and compositions by modern composers.

Sight playing and ensemble class work.

Junior and Senior Years

Technical Studies: Phillip.

Gradus ad Parnassum: Clementi.

English Suites and Well-Tempered Clavichord: Bach.

Etudes: Chopin, Liszt, Rubinstein, Henselt, Moszkowski, etc.

Pieces and Concertos: Beethoven, Chopin, Schumann, Brahms, Saint-Saens, Liszt, etc.

Accompanying; sight playing; ensemble class work.

Post Graduate or Artist's Class

The artist school is especially designed for students who, having gained a theoretical knowledge, thorough and fundamental, and technical ability, are able to study the greatest works of classic and modern composers, and who desire to reach a higher standard of excellence as artists. The intellectual and other artistic requirements are considerably greater than those for graduation. One object of this course is to provide the student artist with a varied repertoire suited to his musical individuality and to his needs as a public performer.

ORGAN

MR. SHEPARD

Freshman Year

Students must complete the preparatory school of the piano course before admission is granted to the organ department.

Lemmen's *Organ School*; Nilson's *Pedal Studies*; Guilmant's *Practical Organist*; and smaller compositions for the church. The acquiring of an organ touch, both legato and staccato playing, and a systematic course of pedal playing. Choir accompanying and such work in improvisation and modulation as is essential to the church organist.

Sophomore and Junior Years

Preludes, Fugues, and Choral Vorspiele of Bach. Easier Sonatas of German and French schools. Church and concert music of all countries. Improvisations in the various forms and the playing of elaborate services, including the arrangement of piano accompaniments for the organ and the reading at sight of vocal scores. A comparative study of the organ and organ music with illustrations. Lectures on the history and construction of the organ in addition to the regular lectures on music and history.

Senior Year

The sonatas and symphonies of all schools; the greater works of Bach and Liszt; and a study of the early compositions for organ and of concertos with orchestral accompaniment.

VOICE

MR. BAAS

The course of study in this department includes:

(1) A thorough study of the essential principles of voice production and vocal technique, consisting of the correct use of breath, tone placement, legato, phrasing, and enunciation.

(2) A study of the best vocal compositions, including works of the Italian, French, German, and English schools.

Careful attention is paid to the needs of each student, the course of instruction being based on the Italian school of training the voice. The purpose is to develop beautiful tone and an intelligent and artistic style of interpretation.

It is impossible to give a specified course of study, as the course necessarily varies for each student. The outline below indicates, in a general way, the character and extent of the work.

Freshman Year

Foundation work: correct breathing and control of breath; tone production and placement; enunciation and phrasing.

Vocalises by Sieber and Concone. Simple songs.

Sophomore Year

Continuation of above mentioned exercises and studies.

Special attention paid to range and flexibility.

Moderately difficult vocalises by Siber, Concone, Marchesi.

Artistic interpretation of moderately difficult songs of the German, Italian, French and English schools.

Junior Year

Advanced exercises, vocalises and songs. Standard compositions of classic, romantic, and modern composers.

Senior Year

Difficult exercises, vocalises and songs. Arias from oratorios and operas.

PUBLIC SCHOOL MUSIC

This course is designed to meet the needs of students who desire to become supervisors or special teachers of music in Normal, High, or Graded schools. All students enrolled in the Public School Music department will be required to take applied music in voice and piano to prepare them properly for their certificate. Participation in Glee Club or Chorus is required and is not counted as an elective credit. Demonstration, observation, and practice teaching will be required.

First Year

Methods and demonstration, course 25, 26.

Harmony, course 1a, 2a.

Keyboard Harmony, 1b, 2b.

Ear-training and Solfeggio, course 1c, 2c.

Applied Music.

English 1, 2.

Psychology 1, 2.

Electives.

Second Year

Methods and Practices, course 27, 28.

Harmony, course 3a, 4a.

Keyboard Harmony, course 3b, 4b.

Ear-training and Solfeggio, course 3c, 4c.

Musical forms and analysis, course 17, 18.

History of Music, course 13, 14.

Musical appreciation, course 21, 22.

Electives.

SCHOOL OF MUSIC—FEES

For a Semester of Eighteen Weeks

Private lessons each week	One Half-	One Hour or Two Half-
	Hour Lesson	Hour Lessons
PIANO		
Mr. Shepard	\$27.00	\$54.00
Miss Lau	13.50	27.00
Miss Roth	13.50	27.00
Miss Estberg	13.50	27.00

VOICE		
Mr. Baas.....	\$27.00	\$54.00

ORGAN		
Mr. Shepard	\$27.00	\$54.00

THEORY		
		(Class of six)
Freshman and Sophomore Harmony.....		\$ 9.00
History of Music.....		4.50
Form and Analysis.....		4.50

Junior and Senior Theory

Rate adjusted according to number in class.

Public School Music	\$18.00
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Piano Practice—1 hour per day	3.00
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Department of Physical Education

MR. BELL

Physical Director

The purpose of this department is to create and foster a condition of vigorous health among the students of the college. This is secured in large measure by encouraging participation of all students in competitive games. A large proportion of the men of the college are candidates annually for the different intercollegiate teams, while interclass contests afford outlet for the energies of those whose athletic pretensions are more modest. A college rule prescribes physical training for all students during the freshmen and sophomore years.

The New Gymnasium

Carroll College trustees are erecting a beautiful new gymnasium this season, which will be ready for the next college year. The gymnasium is seventy by one hundred and twenty-one feet, with a playing floor of fifty by ninety feet.

The gymnasium will be fully furnished with club rooms and parlors for women and men, together with separate lockers, showers and rest-rooms. The gymnasium floor will have a ten-foot space around the playing floor, and will be provided with seats, also a balcony furnished with a seating capacity for five hundred people. The seating on both floors accommodate twelve hundred people at games and the gymnasium, when converted into an auditorium, will provide for an audience of fifteen or sixteen hundred people. The building will provide ample facilities for both athletic and social activities of the College, and is designed to supply all the wants of a growing college.

Intercollegiate Athletics

The students of the college engage in football, basketball, baseball, and track athletics. Carroll is a member of the Wisconsin Intercollegiate Athletic Association and participates each year in a number of contests with neighboring colleges. Carroll College stands for clean, wholesome athletics and ad-

heres to the spirit, as well as the letter, of the regulations adopted by the conference colleges. While the college lends every encouragement to intercollegiate athletics, it requires that this work be subordinated to the regular work of the school. All intercollegiate contests are under the direction of the athletic association and the athletic committee of the faculty. No student who is deficient in any of his work will be permitted to participate in any intercollegiate contests.

Normal Course

During the year a regularly organized course is conducted by the Physical Director which offers to the young men of the college opportunity of preparation for the work of coaching athletic teams in connection with teaching positions in high schools or for the position of physical director in such schools.

General Information

SUPERVISION

While it is the purpose of the college to encourage self-government and to grant to students as much freedom as is consistent with their best interests and with the good order of the school, yet it is deemed necessary that students should be at all times under the supervision of the faculty.

Non-resident young women are required to live in the dormitory unless special permission to live elsewhere be given by the faculty.

Whenever it becomes apparent that a student's influence is harmful to other students, he will be requested by the faculty to leave the school.

Students who have not at least a fair ability to acquire knowledge, and a reasonable willingness to study, will not be allowed to remain in the school.

Attendance

Students must be prompt and regular in attendance. Tardiness and absence are fatal to good work. The authorities of the college believe that the measure of value which the student derives from his work should be estimated, not by written examinations alone, but also by regular attendance in the classroom and careful preparation of assigned work.

Absence beyond the limit permitted may operate to reduce the class grade or to reduce the credit given for the course.

Regulations governing attendance and absence are published for the guidance of students.

For absence on a day immediately preceding or immediately following a recess of the college a special examination is required for each class that is missed and a fee of one dollar is charged for each examination.

No student is permitted to drop a study without permission from the faculty. A study so dropped without permission will be recorded as a failure.

Examinations and Grades

Such tests and recitation period examinations are given from time to time as instructors may think necessary. At the close of each semester, four days are set apart, on which instructors give examinations covering a part, or the whole, of the semester's work. Full reports, embracing the work of each semester, are sent to the parents for their inspection.

The examinations given at the end of each semester, together with the recitation record and tests given by the instructors at suitable times during the semester, form the basis for a final semester standing. These standings are recorded with the letters A, B, C, D, E, and F, to which the following values are attached:

A: "excellent"	100-93
B: "good"	92-85
C: "fair"	84-77
D: "low"	76-70
E: "condition"	69-60
F: "failure"	59—

A condition may be removed by examination taken not later than the middle of the semester following that in which it was incurred. An "incomplete" shall be construed as a condition. A record of failure requires that the study be taken again in class recitation.

Any student who shall be absent from a semester examination, a mid-semester examination, or an examination for the removal of conditions, or who shall have forfeited class standing by absence or otherwise, shall be required to take a special examination and to pay a fee of one dollar for such examination.

When a student has failed or has been conditioned in a subject, the work should be completed at as early a date as possible, and such work must take precedence over elective or advanced work.

A condition not removed during the semester following that in which it is imposed becomes a failure. All failures and conditions must be made up before a degree will be granted.

Honor Credits

The system of honor credits is explained under the head of "requirements for graduation," page 34.

Classification of Students

To be a sophomore a student must have at least 28 hour credits and 28 honor credits; to be a junior, he must have 58 hour credits and 58 honor credits; to be a senior, he must have 88 hour credits and 88 honor credits.

PUBLIC WORSHIP

A general convocation of the college is held each day that college is in session. A part of the time of this assembly is given to devotional purposes and a part to the presentation and discussion of matters of interest and importance to the college community. Attendance of students is required.

The college maintains no regular Sunday service, but the churches of the city are glad to welcome the students to their fellowship and each student is expected to find a place in one of these churches.

LECTURES

At frequent intervals lectures are given in the college chapel by men of note and distinction in the professions and in the various departments of business activity, an arrangement which affords the student the stimulus of contact with men who are leaders in thought and action.

SOCIAL LIFE

The demands of young people for recreation and their need of social culture and enjoyment receive recognition and encouragement. Students are given as much liberty in social affairs as is consistent with the standard of scholarship maintained and with the responsibility of the faculty for their welfare. Social events, in which members of the school participate, and class parties, are usually restricted to Friday and Saturday evenings, and are always under the supervision of the faculty.

STUDENT ORGANIZATIONS

In recognition of the fact that college students are usually richly endowed with active, creative impulses seeking opportunity for expression, the college has not failed to encourage, within reasonable limits, the many forms of activities which appeal to the varying tastes and interests of college men and women. In consequence, there are athletic, forensic, social, scholastic, literary, scientific, dramatic, musical, religious organizations, which, under careful and intelligent administration, direct into useful and helpful channels student interest and activity.

The Student Senate

The Student Senate is a committee composed of representatives from various designated groups of students, and representing in general the organized body of college students, or the "Assembly of Carroll Students." It considers matters of student interest and welfare, and makes recommendations to the Faculty and Student Assembly. It serves as an agency whereby student sentiment and initiative may be given expression and brought to bear upon the determination of matters of college policy and practice.

Student House Government Association

Definite questions of discipline and house government in the women's dormitory are regulated by the Student House Government Association. The administration of the constitution of this organization is centered in a House Council, composed entirely of students, and an Advisory Board, consisting of the Dean of Women and her associate. The result of placing these problems of government in the hands of the young women has been to develop in a high degree those qualities of responsibility and dependability which are demanded of the college-trained woman.

Christian Associations

Two very active and prosperous Christian organizations, one the Young Men's Christian Association, the other the Young Women's Christian Association, provide a very pleasant center

for the religious life of the college. These associations have their meetings for one-half hour on Wednesday forenoon, the young men and young women meeting in their separate halls. These meetings are frequently addressed by some member of the faculty or by one of the pastors or Christian workers of the city. These several services furnish the occasion and means of very great help and inspiration to all who attend, and they also promote a delightful Christian spirit in the life of the college.

Another organization for Christian culture is the Student Volunteer Missionary Band in which the missionary interest of the college finds its center and occasion for expression.

Delta Sigma Nu

This is a local honor society, similar in ideals to the national honor society, Phi Beta Kappa. A limited number of students who, at the close of the first semester of junior year, have attained a grade of 93 per cent, are entitled to nomination by the Faculty to membership in Delta Sigma Nu; such nomination is open also to those students who, at the close of the first semester of senior year, have attained a grade of 90 per cent.

Phi Alpha Tau

Phi Alpha Tau is an honorary fraternity, membership in which is conferred for distinguished work in any one or more of the forensic activities of the college.

Oratorical League

The Carroll College Oratorical League is composed of representatives of the college classes, and has control of the local debates and oratorical contests. Two preliminary contests, and one final contest, in oratory are held each year. The winners in the final contest are the representatives of the college in the annual contest of the Wisconsin Intercollegiate Oratorical Association.

Musical Clubs

The musical organizations of the college, the Men's Glee Club, the Women's Glee Club, and the Orchestra, supplement the work of the music department of the college, and afford valuable training in chorus and orchestra work. A concert tour is made each year by these organizations.

Carroll College French Club

All French students who have had at least one year of French may become members of the French Club, which meets once every two weeks. The object of the club is to supplement the work of the classroom. The programs aim to acquaint the student with the country of France and the French people, their history, literature, music, customs, and language. A part of each program is given in French. Some of the members of the club correspond with students in France.

International Relations Club

The International Relations Club is composed of students of Carroll College who possess an interest in international affairs of the world and who have an inclination to acquaint themselves with vital human problems beyond the limits of the ordinary classroom. A program of some gripping world problem is given every two weeks during the school year. The club frequently secures speakers of national reputation to address the sessions.

The Carroll Players

The Carroll Players is the title by which certain students of histrionic ability are distinguished. Eligibility to this organization is determined by achievement in acting, play producing, play-writing, or theatric art work in any of its phases. The Carroll Players have acquired through the years a long record of varied and notable plays creditably staged.

Athletic Association

The Athletic Association represents the organized athletic interests of the college. Under its auspices the intercollegiate games in which the college participates are carried on. De-

tailed information of the athletic work of the college will be found in the statement of the Department of Physical Education.

PUBLICATIONS

The Carroll Echo

The *Carroll Echo* is edited and published by a staff appointed by the Echo Board of Control, which has general supervision of the policy and conduct of the paper. The work in connection with this publication is co-ordinated with the academic work of the college, especially with courses in composition, and college credit, under reasonable restrictions, is given for it.

Hinakaga

The junior class issues annually *Hinakaga*, a publication richly illustrated and representing all the varied interests of college life.

The Bulletin

The Bulletin is issued bi-monthly by the faculty of the college.

BOOK STORE

A college book store is maintained, on the ground floor of Main Hall, where books and other necessary supplies may be obtained at reasonable prices.

EXPENSES AND LIVING ARRANGEMENTS

College Fees

To provide a minor part of the cost of maintaining the college, the following charges are made:

Matriculation fee: \$5.00, payable at entrance.

Tuition: \$65.00 per semester.

Athletics, Oratory and *Echo* fee: \$10.00 per semester.

Extra registration in excess of 16 hours: \$4.00 per hour.

Graduation fee: \$10.00.

Laboratory Fees

Chemistry (all laboratory courses), \$10.00.

Biology, see announcement of courses; Physics and Surveying, \$1.00 per hour for the number of hours for which the course is scheduled.

Accounting, \$1.50.

Mechanical Drawing, \$1.00.

Chemistry Breakage Deposit, \$5.00.

Biology Deposit, \$2.50.

Home Economics: Foods, \$5.00; Clothing, \$2.00.

All college bills are payable in advance at the time of registration. An additional charge of \$3.00 is placed upon students who enter after the regular registration. No money will be refunded unless withdrawal from college becomes necessary because of sickness. The tuition charge in this case will be \$6.00 per week for the actual time of enrollment. No refunds are allowed on laboratory or incidental fees, or room rent.

Living Arrangements for Men

A very important part of the expenses for students is the cost of living; therefore every effort is made to keep this as low as possible. Excellent rooms, convenient to the college, may be had at from \$1.50 to \$3.00 per week. Table board may be obtained in private families at a rate similar to that charged by the college.

Living Arrangements for Women

The rooms of the Elizabeth Voorhees Dormitory are single and double, or may be used en suite. Each occupant of a room has her own closet. The price of rooms, including heating and lighting, ranges from \$36.00 to \$45.00 per semester. The rate for table board is \$6.00 per week, subject to change. Rooms are furnished with college cot, mattress, pillow, study tables and dresser with mirror. The floors are of hard wood and students desiring rugs may furnish them. Bedding, window curtains, couch covers, table covers, napkins, and all other articles of convenience or adornment are furnished by each student.

Single rooms are 9 x 13 feet, and double rooms 12½ x 13½ feet; windows, 38 x 64 inches; study tables, 2 x 3 feet.

Application for admission should be made early. A deposit of \$5.00 is required from those engaging rooms, and a choice will be made according to such application. The deposit may be returned if the engagement is cancelled three weeks before the opening of the semester.

Assistance for Students

The college is able to extend some assistance, in a limited degree, through the distribution of scholarship funds provided by generous friends of ambitious and worthy students. In a larger degree, however, the college is able to assist students by helping them to find opportunities for self-help. There are many such opportunities in the factories, offices, and homes of Waukesha, and the demands for student service have usually met all needs of students who have found it necessary, or who have preferred, to make their own way in college.

UNIVERSITY SCHOLARSHIP

The faculty of Carroll College is authorized by the University of Wisconsin to appoint each year a member of the graduating class of the college to a graduate scholarship in the University. This scholarship affords the incumbent an income of \$250 annually.

Degrees Conferred in 1922

Doctor of Divinity

Rev. Howard A. Talbot

Rev. John Henry Boose

Bachelor of Arts

Howard M. Aker

Catherine A. Hamilton

Catherine O. Alvord

Dorothy Heagle

George August Bray

Leora M. Howard

Miriam A. Calvert

Clarence E. Kennedy

Kenneth Arnal Dewey

Claude C. Kennedy

Caroline O. Dumdey

Bernice C. McLean

John Louis Engler

Dorothy Nelson

Ernest L. Giroulx

Irene E. Smith

Arnold Roy Graaskamp

Edwin A. Sparr

Ethel E. Walvoord

Bachelor of Philosophy

Marti E. Christiansen

Rebecca Clement

Bachelor of Science

Edward Carl Bierke

Clifford C. Oliver

Leroy Henry Glass

Estelle Laurel Schiffman

William David Grimmer

Roswelle B. Soulen

George William Jacques

William Maurice Swain

Roll of Students

THE COLLEGE

Seniors

Adams, Beatrice Isabelle	Oconomowoc
Brandt, Albert	Bison, S. D.
Clark, Marietta	Pewaukee
Connell, Hazel M.	Waukesha
Conrad, Jessie S.	Waukesha
Cook, William J.	Commonwealth
Croft, Albert	Madison
Dunning, Luella M.	Sycamore, Ill.
Finley, Georgia Iva	Waukesha
Ganfield, Dorothy Evelyn	Waukesha
Greengo, Beulah Vail	Milwaukee
Hammarlund, Ebba	Norway, Mich.
Honeyager, Anna B.	Waukesha
Huenink, DeLoyd	Cedar Grove
Judin, Frances Carolyn	Waukesha
Kalkhurst, Stanley C.	Beaver Dam
Kennedy, G. Agnes	Waukesha
Keuper, Irene	Waukesha
Klein, Walter E.	Ellsworth
Kremers, Marcus	Milwaukee
Latimer, Byrnice	Lakeland, Fla.
Leininger, Elmer	Waukesha
Loven, Leo. C.	Rio
McFarland, Vern	Baraboo
Mattas, Olga Irene	Chicago, Ill.
Morey, Robert G.	Waukesha
Panella, Nicholas Joseph	Waukesha
Perry, Lillian Cooledge	North Prairie
Peterson, Allan Richard	Florence
Rankin, Ruth Estelle	Pewaukee
Richardson, Stanford Royal	Baraboo

Ryerson, Elleanor M.	Waukesha
Roth, Elsa T.	Superior
Sommer, Clarence	Waukesha
Stewart, Robert J.	Waukesha
Thomas, Arthur William	Milwaukee
Thomas, Gerald Spencer	Waukesha
Tipler, Perry A.	Neenah
Van Adestine, Robert F.	Wausau
Weaver, Adelaide	Sussex
West, Amelia M	Waukesha
Wichman, Alton E.	Waukesha
Williams, Blodwen	Waukesha
Young, Harvey P., Jr.	Neenah

Juniors

Badinger, Erla Rhoads	Waukesha
Barkow, Dorothy	Waukesha
Beernink, Clarence	Milwaukee
Benedict, Nita L.	Waupaca
Bird, F. Edgar	Horicon
Boeck, Otto	Waukesha
Brown, Clinton	Waukesha
Carstens, Allan D.	Waukesha
Casey, Edward R.	Libertyville, Ill.
Daniel, Lavona	Milwaukee
Diekelmann, Melvin	Horicon
Emilson, Victor A.	Ettrick
Fruit, Bernard Dale	Richland Center
Ganfield, Arthur Boardman	Waukesha
Graaskamp, Jeannette E.	Milwaukee
Hintze, Theodore A.	Beaver Dam
Hornigold, Alfred	Ashland
Hutchinson, Alberta	Marinette
Judin, Leah	Waukesha
Kitterman, Harwood	Tiskilwa, Ill.
Lee, Maud	Waukesha
Lee, Wilma	Blue River
Love, Mildred	Waukesha

McGill, Mary	Templeton
Medler, Glenn	Waukesha
Merton, Elda	Waukesha
Moss, George Bearman	Milwaukee
Olson, Edwin A.	Florence
Parker, Keith	Milwaukee
Parr, Bernice	North Milwaukee
Peterson, Marie	Superior
Plekenpol, Gladys J.	Cedar Grove
Pope, R. Gordon	Neenah
Roberts, Loren	Cambria
Sherman, Rose	Winnebago
Siebecke, Dorothy	Wausau
Snyder, Clemens	Waukesha
Spillman, Hilda	Waukesha
Thomas, Ruth	Columbus
Tucker, Oliver	North Prairie
Vincent, Carol Breese	Waukesha
Weigand, Ted	Osceola
Wetlaufer, Leslie A.	Waukesha
Williams, Vernon	Dousman

Sophomores

Amundsen, Ralph B.	Stoughton
Apker, Robert C.	North Freedom
Beernink, Frances	Milwaukee
Bennett, Wallace	Endeavor
Berg, Harold	Baraboo
Bird, Bessie	Horicon
Bird, Sawyer W.	Horicon
Blunt, Albert E.	Evansville
Bray, Lawrence L.	Waukesha
Brown, Tregoweth E.	Gilbert, Minn.
Bullard, Daphne N.	Waukesha
Carstens, Erwin	Waukesha
Christensen, Cyril J.	Rio
Christiansen, Vera	Oregon
Clark, Dorothy	Waterloo

Damp, Charles	Oconto Falls
Davies, E. Bowen	Waukesha
Dierken, LaVita Marie	Reedsburg
Estberg, Frances	Waukesha
Garside, Frances	Cedar Grove
Green, Ruth M.	Oconomowoc
Hanson, Lawrence	Waukesha
Hawks, Doris Katherine	Horicon
Henbest, Vivian	Waukesha
Hertz, Frank W.	Waukesha
Hilton, Margaret G.	Neenah
Hoelz, Marion	Burlington
Huenink, Erwin	Cedar Grove
Hughes, Osborne David	Rio
Ibanthal, S. J.	Middleton
Joerns, Frederick	Stevens Point
Jones, Ellsworth	Cambria
Judin, Ruth	Waukesha
Kelley, Marie	Waukesha
Kilpatrick, Edith	Waukesha
Landsverk, Arnold	Stoughton
Levine, Vera	Waukesha
Lowry, Scott	Waukesha
McMurray, Preston	Turlock, Calif.
Mann, Clark	Waukesha
Meininger, Ruth L.	Waukesha
Morris, Llewelyn L.	Cambria
Nelson, Ruth	Waupaca
Olsen, Ruth E.	Elkhorn
Otterness, Sanford	Rio
Owen, Gwilym A.	Neenah
Page, Curtis	Baraboo
Parkinson, Paul	Waukesha
Peterson, Russell F.	Green Bay
Porter, William Almonde	Waukesha
Rhodes, Warren Allen	Waukesha
Roberson, Leola	Waukesha
Rodgers, Jeanette	Waukesha
Ruehl, Arthur	Galesville

Sterr, Gilbert N.	Beaver Dam
Stine, Thomas Y.	Reedsburg
Swain, Ralph R.	Waukesha
Tagatz, Delia L.	Wautoma
Thomas, Evelyn G.	Waukesha
Thomson, Catherine	Richland Center
Thornton, Harold	Neenah
Tichenor, Margaret	Waukesha
Toutenhoofd, H. Jean	Sheboygan
Upham, Ralph Vedder	Marshfield
Vanderjagt, Ruth N.	Milwaukee
Vater, Eleanor	Genesee Depot
Walters, Bernardine	Reedsburg
Waring, Franklyn	Florence
Williams, Alma	Wauwatosa
Yunker, Dorothy	Milwaukee
Zillmer, Harvey F.	Waukesha

Freshmen

Agnew, John	Waukesha
Apple, Harold	Union Grove
Aspinwall, Mildred	Deerfield
Bager, Frederick	South Milwaukee
Bager, William	South Milwaukee
Baird, Eldon	Evansville
Balkansky, Bernard	Manitowoc
Barkow, Ethel	Waukesha
Barsamian, Mihron	Waukesha
Boorse, Dorothy	Miles City, Mont.
Boose, Farnham	Marinette
Boyd, David	Waukesha
Branham, William	Eau Claire
Breese, Richard	Waukesha
Brehm, Raymond	Waukesha
Brown, Jessie	Hartland
Brown, Herbert	West Allis
Bugbee, George	Waukesha
Buttles, Earl	Lake Beulah
Carroll, Walter	Detroit, Mich.

Chapple, Marian	Ashland
Clark, Albert W.	Chicago, Ill.
Clutterbuck, Donald	Waukesha
Collipp, Platon G.	Portage
Coutts, Marie	South Milwaukee
Crowley, Francis G.	Janesville
Culver, Lorraine	Pewaukee
Curtis, Charles	Kenosha
Cutler, Margaret	Waukesha
Däsenbrock, Charlotte	Horicon
Davies, Gwilym	Waukesha
Decker, John J.	Phillips
Defnet, Kenneth	Neenah
DeWitt, Perry	Waukesha
DeRemer, Emery	Howarden, Iowa
Dugan, Lyons	White Earth, Minn.
Dumdey, Lewis	Manitowoc
Ellefson, William	West Allis
Eschenbach, Lucile	North Freedom
Ferguson, Norma	Waukesha
Fesler, Mildred	Oak Park, Ill.
Frank, Lester	Waukesha
Fraser, Margaret	Waukesha
Freckman, O. J.	Milwaukee
Fries, Harriet	Mazomanie
Gillette, Lorna	Mazomanie
Greene, Ruth	Oconomowoc
Gridley, Rollen	Janesville
Grimmer, David	Green Bay
Gumm, Glenn	Milwaukee
Hansen, Edward	Manitowoc
Hart, Margaret	Brookfield
Haworth, Harold	Whitewater
Heeter, Walter	Mukwonago
Hendrickson, Glenn	Waukesha
Henrich, Reuben	Milwaukee
Hill, Elizabeth	Dousman
Hoelz, Marion	Burlington
Hughes, Mildred	Wales

Humbert, Gertrude	Waukesha
Hyatt, Catherine	Richland Center
Iams, Inez	West Allis
Jamieson, Anna	Arlington
Jegl, Henry	Galesville
Joerns, Isabel	Stevens Point
Johnson, Helmer	Galesville
Jones, Margaret	Neenah
Jones, William A.	Sparta
Jorgensen, Paul E.	Kenosha
Kellogg, Frank	Neenah
Klemm, Hugo	Sheboygan
Knipfel, Marie A.	Waukesha
Koning, Allen A.	Cedar Grove
Korn, Alice F.	Waukesha
Korn, Elizabeth K.	Waukesha
Lee, Harvey L.	Wittenberg
Lenz, Gilbert H.	Watertown
Lensuik, Lester	Cedar Grove
Leskovitz, Eva M.	Waukesha
Leskovitz, Margaret F.	Waukesha
Liessman, Robert	Reedsburg
Lomas, Donald F.	Green Bay
Loose, Elmer	Waukesha
Love, George	Waukesha
Luebchow, Harold A.	Wausau
McFarlane, Elizabeth	Waukesha
McGirr, Gerald	Baraboo
McNamara, Theodore	Greenwood
McNulty, Mark	Delafield
McVicar, Angus	Waukesha
Magdanz, Frances	Waupaca
Marquette, Carl	Baraboo
Mayo, Claudine	Elkhorn
Merton, Mineta	Waukesha
Mulholland, John	Gilman
Nelson, Inez	Three Lakes
Neu, Violet	Three Lakes

Newquist, Roy A.	Florence
Oatway, Margaret A.	Waukesha
O'Brien, Jack	Milwaukee
Page, M. Curt	Baraboo
Philip, George T.	West Allis
Porteous, Carroll	Area, Ill.
Quanz, Carl	Cleveland, Ohio
Raeuber, Amy	Manitowoc
Raue, Lothar	Horicon
Ritter, Hiram E.	Crandon
Roberts, Hubert H.	Cambria
Ruhnke, Carl	Wausau
Scanlon, Edward	Stoughton
Schermerhorn, Doris	North Milwaukee
Schlicker, Ethel	Hartland
Schuren, Harold	Genoa Junction
Scully, Dorothy	Oconomowoc
Seyler, M. Katherine	Kenosha
Siebecker, L. W.	Wausau
Solbach, Florence	Waukesha
Stebnitz, Curtis	Arena
Strohschan, Arthur	Antigo
Sunstrom, Alice	Marinette
Tans, Lyle	Waukesha
Thompson, Helen	Neenah
Thompson, Kenneth	Allenville
Todd, Samuel B.	Waukesha
Tonn, Henry J.	Lake Mills
Touhey, James	Maribel
Wald, Margaret	Burlington
Walter, Emily	Menasha
Walvoord, Randall	Sheboygan
Weinke, E. B.	Portage
Wendt, Melvin	Watertown
Weirich, Monroe W.	Baraboo
Westphal, Lewis	Neenah
Williams, Grace	Riverside, Ill.
Williams, M. Lucile	Danville, Ill.
Worthman, Robert J.	Casper, Wyo.

Special Students

Christopherson, Linda	Oconomowoc
Copeland, Mrs. Edith M.	Waukesha
De Witt, Bradley	Waukesha
Gannon, John	Ironton, Ohio
Grimm, Hazel	Waukesha
Guthell, Byron	Waukesha
Horning, Mrs. H. M.	Waukesha
Janney, Mrs. Frances R.	Waukesha
Linden, Nicholas	Joliet, Ill.
Riley, Charles E.	Lincoln, Ill.
Strand, Thomas R.	Detroit, Minn.
Wilbur, Mrs. Ethel	Waukesha

THE SCHOOL OF MUSIC

Piano

Andrews, Mary-Elizabeth	Waukesha
Blaisdell, Frank	Waukesha
Blaisdell, Jack	Waukesha
Blaisdell, Margaret	Waukesha
Boeck, Clara	Waukesha
Borenstein, Bertha	Waukesha
Borenstein, Ethel	Waukesha
Chapman, Helen	Waukesha
Damp, Charles	Oconto Falls
Douglas, Mitzi	Waukesha
Eckert, Edith	Waukesha
Eckert, Harold	Waukesha
Estberg, Frances	Waukesha
Faas, Mrs. A. D.	Waukesha
Frame, Virginia	Waukesha
Ganfield, Ruth	Waukesha
Gasper, Grace	Waukesha
Goff, Betty	Waukesha
Hahn, Marvel	Waukesha
Hanson, Muriel	Waukesha
Hertz, Clyde	Waukesha

Hoeveler, Gertrude	Waukesha
Hopkins, Madeline	Waukesha
Hopkins, Winifred	Waukesha
Humbert, Gertrude	Waukesha
Jacob, Janet	Waukesha
Jacob, Mary	Waukesha
Kingsbury, Elizabeth	Waukesha
Knutson, Hazel	Waukesha
Lee, Maude	Waukesha
Lee, Sadie Mae	Wittenberg
Levine, Beatrice	Waukesha
Lobdell, Ramona	Mukwonago
Love, Marion	Waukesha
Lowry, Jean	Waukesha
Marcus, Bessie	Waukesha
Martin, Florence	Waukesha
Martin, Helen	Waukesha
Nickell, Mary Anna	Waukesha
Olson, Ardath	Waukesha
Raeuber, Amy	Manitowoc
Richardson, Calvin	Waukesha
Richardson, Irene	Waukesha
Roth, Elsa	Superior
Runkel, Mrs. W. E.	Waukesha
Schlicher, Ethel	Hartland
Sederholm, Louise	Genesee Depot
Spillman, Virginia	Waukesha
Torhorst, Myra	Waukesha
Waga, Marjorie	Waukesha
Willis, Elizabeth	Waukesha
Wilson, Marion	Waukesha

Voice

Balkansky, Bernard	Manitowoc
Bell, Mina	Waukesha
Bray, George	Waukesha
Bray, Lawrence	Waukesha
Christensen, Syril	Rio

Damp, Charles	Oconto Falls
Dunning, Luella	Sycamore, Ill.
Ganfield, Boardman	Waukesha
Ganfield, Dorothy	Waukesha
Halverson, H. M.	Waukesha
Hoelz, Marion	Burlington
Huenink, Erwin	Cedar Grove
Lobdell, Romona	Mukwonago
Lowry, Scott	Waukesha
McGirr, Gerald	Baraboo
Pope, Gordon	Neenah
Shephard, Thelma	Waukesha
Stelle, Grace	Waukesha
Stine, Thomas	Reedsburg
Toutenhoofd, Jean	Sheboygan
Westphal, Lewis	Neenah
Waring, Franklyn	Florence
Williams, Alma	Wauwatosa

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